



Test Report No: 2420117R-RFUSV01S-A

TEST REPORT FCC Rules&Regulations

Product Name	Peplink Pepwave Wireless Product
Brand Name	peplink PEPWAVE
Model No.	MAX BR2 BR2 MAX-BR2-LTE-US-T-PRM
FCC ID	U8G-P1MT03A
Applicant's Name / Address	PISMO LABS TECHNOLOGY LIMITED A8, 5/F, HK Spinners Industrial Building, Phase 6, 481 Castle Peak Road, Cheung Sha Wan, Hong Kong
Manufacturer's Name	PISMO LABS TECHNOLOGY LIMITED
Test Method Requested, Standard	FCC CFR Title 47 Part 15 Subpart C Section 15.247 ANSI C63.10-2013
Verdict Summary	IN COMPLIANCE
Documented by April Chen	April Chen
Tested by Ivan Chuang	April Chen Ivan Chung Jack Hsu
Approved by Jack Hsu	Jack Hsu
Date of Receipt	2024/02/05
Date of Issue	2024/04/18
Report Version	V1.0

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Competences and Guarantees

DEKRA is a testing laboratory competent to carry out the tests described in this report.

In order to assure the traceability to other national and international laboratories, DEKRA has a calibration and maintenance program for its measurement equipment.

DEKRA guarantees the reliability of the data presented in this report, which is the result of the measurements and the tests performed to the item under test on the date and under the conditions stated in the report and it is based on the knowledge and technical facilities available at DEKRA at the time of performance of the test.

DEKRA is liable to the client for the maintenance of the confidentiality of all information related to the item under test and the results of the test.

The results presented in this Test Report apply only to the particular item under test established in this document.

<u>IMPORTANT:</u> No parts of this report may be reproduced or quoted out of context, in any form or by any means, except in full, without the previous written permission of DEKRA.

General Conditions

- 1. The test results relate only to the samples tested.
- 2. The test results shown in the test report are traceable to the national/international standard through the calibration report of the equipment and evaluated measurement uncertainty herein.
- 3. This report must not be used to claim product endorsement by TAF or any agency of the government.
- 4. The test report shall not be reproduced without the written approval of DEKRA Testing and Certification Co., Ltd.
- 5. Measurement uncertainties evaluated for each testing system and associated connections are given here to provide the system information for reference. Compliance determinations do not take into account measurement uncertainties for each testing system, but are based on the results of the compliance measurement.



Revision History

Version	Description	Issued Date
V1.0	Initial issue of report	2024/04/18

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Summary of Test Result

Report Clause	Test Items	Result (PASS/FAIL)	Remark
3	AC Power Line Conducted Emission	PASS	-
4	6dB Bandwidth	PASS	-
5	Maximum Conducted Output Power	PASS	-
6	Maximum Power Spectral Density	PASS	-
7	Antenna Port Conducted Emission	PASS	-
8	Radiated Emission	PASS	-

Comments and Explanations

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

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1. General Information

1.1. EUT Description

Frequency Range	2400 ~ 2483.5 MHz			
Operating Frequency	IEEE 802.11b/g/n/ac (20 MHz) 2412 ~ 2462 MHz			
	IEEE 802.11n/ac (40 MHz) 2422 ~ 2452 MHz			
Channel Number	IEEE 802.11b/g/n/ac (20 MHz)	Hz) 11 Channels		
	IEEE 802.11n/ac (40 MHz)	7 Channels		
Type of Modulation	IEEE 802.11b	DSSS-DBPSK, DQPSK, CCK		
	IEEE 802.11g/n	OFDM-BPSK, QPSK, 16QAM, 64QAM		
	IEEE 802.11ac	OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM		

Acce	Accessories Information				
No.	Equipment Name	Brand Name	Model No.	Rating	Remark
1	Adapter	DVE	DSA-36PFN-12 FUS 120300	Input: 100-240Vac, 50/60Hz, 1.0A Output: 12V, 3.0A, 36.0W	With power cable : Non-Shielded, 1.5m

The difference for each model is shown as below:

Model No.	Description
MAX BR2	
BR2	All models are electrically identical, different model names are for marketing purpose.
MAX-BR2-LTE-US-T-PRM	Pai Pai

From the above models, model: MAX BR2 was selected as representative model for the test and its data was recorded in this report.

Antenn	a Information				
Item.	Manufacturer	Model No.	Туре	Antenna Gain (dBi)	Directional Gain (dBi)
1	YUAN CHEN TECH CO., LTD	ACA-0040-6G1A1-A10	Omni-directional	3.15	6.16
2	YUAN CHEN TECH CO., LTD	ACA-0040-6G1A1-A10	Omni-directional	3.15	6.16

Note:

- For IEEE 802.11b/g/n/ac Mode: (2TX, 2RX)
 Both Chain A / Chain B can be used as transmitting/receiving antennas.
- 2. The antenna gain as by the manufacturer provided.
- 3. Each antenna has been evaluated and only the worst case (higher gain antenna) is presented in the report.



1.2. EUT Information

EUT Power Type	Fro	From Adapter / PoE / Terminal Block		
EUT Function	\boxtimes	✓ Point-to-multipoint ☐ Point-to-point		
Beamforming Function		With beamforming	\boxtimes	Without beamforming

1.3. Testing Location Information

USA	FCC Registration Number: TW0033	
Canada	CAB Identifier Number: TW3023 / Company Number: 26930	

Site Description	Accredited by TAF
	Accredited Number: 3023

Test Laboratory	DEKRA Testing and Certification Co., Ltd.
	Linkou Laboratory
Address	No. 5-22, Ruishukeng Linkou District, New Taipei City, 24451, Taiwan, R.O.C.
Performed Location	No. 26, Huaya 1st Rd., Guishan Dist.,Taoyuan City 333411, Taiwan, R.O.C.
Phone Number	+886-3-275-7255
Fax Number	+886-3-327-8031

Ambient conditions in the laboratory:

Performed Item	Items	Required	Actual	Test Date	
AC Power Line	Temperature (°C)	10~40 °C	20.4 °C	0004/04/45	
Conducted Emission	Humidity (%RH)	10~90 %	48.9 %	2024/04/15	
Dedicted Fortester	. Temperature (°C)		22.7 °C	0004/00/45	
Radiated Emission	Humidity (%RH)	10~90 %	56.0 %	2024/03/15	
DE 0 1 1 1 5 1 1	Temperature (°C)	10~40 °C	20.4 °C	0004/00/40 0004/00/00	
RF Conducted Emission	Humidity (%RH)	10~90 %	48.9 %	2024/03/19-2024/03/22	

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1.4. Measurement Uncertainty

Uncertainties have been calculated according to the DEKRA internal document with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2).

Test Item	Uncertainty		
AC Power Line Conducted Emission	±3.50 dB		
6dB Bandwidth	±1580.61 Hz		
Maximum Conducted Output Power	±1.05 dB		
Maximum Power Spectral Density	±2.14 dB		
Antenna Port Conducted Emission	±2.14 dB		
Radiated Emission	9 kHz~30 MHz: ±3.88 dB 30 MHz~1 GHz: ±4.42 dB 1 GHz~18 GHz: ±4.28 dB 18 GHz~40 GHz: ±3.90 dB		

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1.5. List of Test Equipment

For Conduction Measurements / HY-SR01

	Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Due Date
V	EMI Test Receiver	R&S	ESR7	101601	2023/06/20	2024/06/19
V	Two-Line V-Network	R&S	ENV216	101478	2023/09/13	2024/09/12
V	Two-Line V-Network	R&S	ENV216	101307	2023/08/17	2024/08/16
V	Coaxial Cable	SUHNER	RG400_BNC	RF001	2024/01/10	2025/01/09

Note:

- 1. All equipments are calibrated every one year.
- 2. The test instruments marked with "V" are used to measure the final test results.
- 3. Test Software Version: e3 230303 dekra V9.

For Conducted Measurements / HY-SR02

	Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Due Date
V	Spectrum Analyzer	R&S	FSV30	103466	2024/01/05	2025/01/04
V	Peak Power Analyzer	KEYSIGHT	8990B	MY51000539	2023/05/15	2024/05/14
V	Power Sensor	KEYSIGHT	N1923A	MY59240002	2023/05/18	2024/05/17
V	Power Sensor	KEYSIGHT	N1923A	MY59240003	2023/05/18	2024/05/17

Note:

- 1. All equipments are calibrated every one year.
- 2. The test instruments marked with "V" are used to measure the final test results.
- 3. Test Software Version: RF Conducted Test Tools R3 V3.0.0.14.

For Radiated Measurements /HY-CB03

Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Due Date
Loop Antenna	AMETEK	HLA6121	56736	2023/05/23	2024/05/22
Bi-Log Antenna	SCHWARZBECK	VULB9168	9168-0675	2023/08/09	2025/08/08
Horn Antenna	Com-Power	AH-840	101100	2023/10/02	2025/10/01
Horn Antenna	RF SPIN	DRH18-E	210507A18ES	2023/05/11	2024/05/10
Pre-Amplifier	SGH	SGH0301-9	20211007-11	2024/01/10	2025/01/09
Pre-Amplifier	SGH	PRAMP118	20200701	2024/01/10	2025/01/09
Pre-Amplifier	EMCI	EMC05820SE	980310	2024/01/10	2025/01/09
Pre-Amplifier	EMCI	EMC184045SE	980369	2024/01/10	2025/01/09
Coaxial Cable	EMCI	EMC102-KM-KM-600	1160314	2024/01/10	2025/01/09
Coaxial Cable	EMCI	EMC102-KM-KM-7000	170242	2024/01/10	2025/01/09
Filter	MICRO TRONICS	BRM50702	G269	2024/01/05	2025/01/04
Filter	MICRO TRONICS	BRM50716	G196	2024/01/05	2025/01/04
EMI Test Receiver	R&S	ESR3	102793	2023/12/11	2024/12/10
Spectrum Analyzer	R&S	FSV3044	101114	2024/02/21	2025/02/20
Coaxial Cable	SGH	SGH18	2021005-1	2024/01/10	2025/01/09
Coaxial Cable	SGH	SGH18	202108-4	2024/01/10	2025/01/09
Coaxial Cable	SGH	HA800	GD20110223-1	2024/01/10	2025/01/09
Coaxial Cable	SGH	HA800	GD20110222-3	2024/01/10	2025/01/09
	Loop Antenna Bi-Log Antenna Horn Antenna Horn Antenna Pre-Amplifier Pre-Amplifier Pre-Amplifier Coaxial Cable Coaxial Cable Filter EMI Test Receiver Spectrum Analyzer Coaxial Cable Coaxial Cable Coaxial Cable Coaxial Cable	Loop Antenna AMETEK Bi-Log Antenna SCHWARZBECK Horn Antenna Com-Power Horn Antenna RF SPIN Pre-Amplifier SGH Pre-Amplifier EMCI Pre-Amplifier EMCI Coaxial Cable EMCI Coixial Cable EMCI Filter MICRO TRONICS Filter MICRO TRONICS EMI Test Receiver R&S Spectrum Analyzer R&S Coaxial Cable SGH Coaxial Cable SGH Coaxial Cable SGH Coaxial Cable SGH	Loop Antenna AMETEK HLA6121 Bi-Log Antenna SCHWARZBECK VULB9168 Horn Antenna Com-Power AH-840 Horn Antenna RF SPIN DRH18-E Pre-Amplifier SGH SGH0301-9 Pre-Amplifier EMCI EMC05820SE Pre-Amplifier EMCI EMC184045SE Coaxial Cable EMCI EMC102-KM-KM-600 Coaxial Cable EMCI EMC102-KM-KM-7000 Filter MICRO TRONICS BRM50702 Filter MICRO TRONICS BRM50716 EMI Test Receiver R&S ESR3 Spectrum Analyzer R&S FSV3044 Coaxial Cable SGH SGH18 Coaxial Cable SGH SGH18 Coaxial Cable SGH SGH18 Coaxial Cable SGH HA800	Loop Antenna AMETEK HLA6121 56736 Bi-Log Antenna SCHWARZBECK VULB9168 9168-0675 Horn Antenna Com-Power AH-840 101100 Horn Antenna RF SPIN DRH18-E 210507A18ES Pre-Amplifier SGH SGH0301-9 20211007-11 Pre-Amplifier SGH PRAMP118 20200701 Pre-Amplifier EMCI EMC05820SE 980310 Pre-Amplifier EMCI EMC184045SE 980369 Coaxial Cable EMCI EMC102-KM-KM-600 1160314 Coaxial Cable EMCI EMC102-KM-KM-7000 170242 Filter MICRO TRONICS BRM50702 G269 Filter MICRO TRONICS BRM50716 G196 EMI Test Receiver R&S ESR3 102793 Spectrum Analyzer R&S FSV3044 101114 Coaxial Cable SGH SGH18 2021005-1 Coaxial Cable SGH SGH18 202108-4 Coaxial Cable	Loop Antenna AMETEK HLA6121 56736 2023/05/23 Bi-Log Antenna SCHWARZBECK VULB9168 9168-0675 2023/08/09 Horn Antenna Com-Power AH-840 101100 2023/10/02 Horn Antenna RF SPIN DRH18-E 210507A18ES 2023/05/11 Pre-Amplifier SGH SGH0301-9 20211007-11 2024/01/10 Pre-Amplifier SGH PRAMP118 20200701 2024/01/10 Pre-Amplifier EMCI EMC05820SE 980310 2024/01/10 Pre-Amplifier EMCI EMC184045SE 980369 2024/01/10 Coaxial Cable EMCI EMC102-KM-KM-600 1160314 2024/01/10 Coaxial Cable EMCI EMC102-KM-KM-7000 170242 2024/01/10 Filter MICRO TRONICS BRM50702 G269 2024/01/05 Filter MICRO TRONICS BRM50716 G196 2024/01/05 EMI Test Receiver R&S ESR3 102793 2023/12/11 Spectrum Analyzer

Note:

- 1. Bi-Log Antenna and Horn Antenna (AH-840) is calibrated every two years, the other equipments are calibrated every one year.
- 2. The test instruments marked with "V" are used to measure the final test results.
- 3. Test Software Version: e3 230303 dekra V9.

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2. Test Configuration of EUT

2.1. Test Condition

EUT Operational Condition				
	AC 120V/60Hz to DC 12V (AC Adapter)			
Testing Voltage	DC 12V (Terminal Block)			
	802.3at PoE			

2.2. Test Frequency Mode

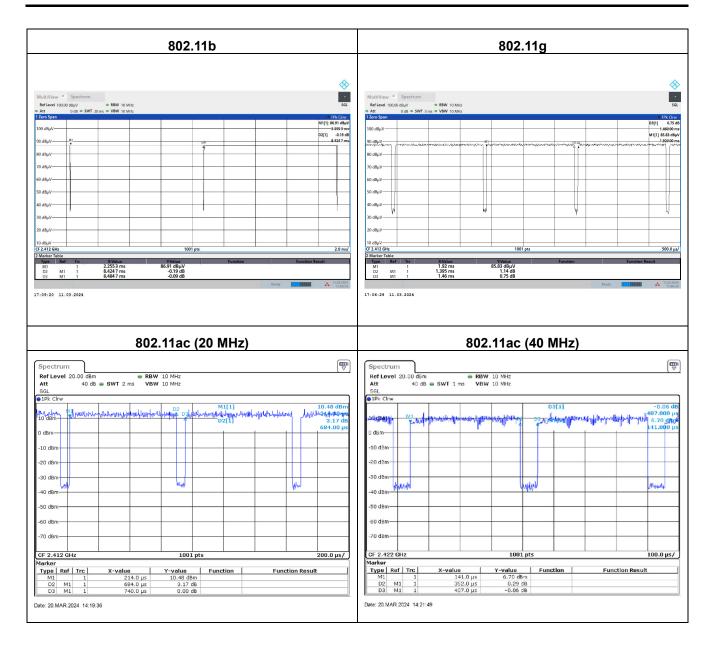
Toot Coffware Marsian	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
Test Software Version	Version QA 0.0.2.0

2.3. Duty Cycle

NA - ded - 45 - m	On Times	On+Off Times	Duty Cycle	Duty Factor	VBW
Modulation	(ms)	(ms)	(%)	(dB)	(Hz)
802.11b	8.4247	8.4847	99.29	0.03	10
802.11g	1.3950	1.4600	95.55	0.20	1000
802.11ac (20 MHz)	0.6840	0.7400	92.43	0.34	2000
802.11ac (40 MHz)	0.3520	0.4070	86.49	0.63	3000

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2.4. Worst Case Measurement Configuration

Test Mode		802.11b
		802.11g
	Mada 4 (Tuananit)	802.11n (20 MHz)
	Mode 1 (Transmit)	802.11n (40 MHz)
		802.11ac (20 MHz)
		802.11ac (40 MHz)

Note:

- 1. Determining compliance shall be based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.
- 2. For radiated emission below 1 GHz and AC power line conducted emission have performed all modes of operation were investigated and the worst-case emissions are reported.
- 3. The spectrum plot against conducted item only shows the worst case.
- 4. The modulation and bandwidth are similar for 802.11n mode for 20MHz/40MHz, 802.11ac mode for 20MHz/40MHz, therefore investigated worst case (802.11ac) to representative mode in test report.
- 5. Lowest data rates are tested in each mode. Only worst case is shown in the report. (802.11b is 1Mbps, 802.11g is 6Mbps, 802.11ac 20MHz/40MHz is MCS0)

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2.5. Tested System Details

for Adapter:

No.	Equipment	Brand Name	Model No.	Serial No.	Power Cord
1	Adapter	DVE	DSA-36PFN-12 FUS 120300	N/A	N/A
2	FLASH	SanDisk	16GB Ultra Flair CZ73	N/A	N/A
3	LAN Hub	TP-LINK	TL-SG108	2161597000480	Non-Shielded, 1.5m
4	Notebook PC	Lenovo	TP00067C	PF-0EW0C3	N/A

for PoE:

No.	Equipment	Brand Name	Model No.	Serial No.	Power Cord
1	PoE Adapter	ZYXEL	PoE12-60W	S212L41486367	N/A
2	FLASH	SanDisk	16GB Ultra Flair CZ73	N/A	N/A
3	LAN Hub	TP-LINK	TL-SG108	2161597000480	Non-Shielded, 1.5m
4	Notebook PC	Lenovo	TP00067C	PF-0EW0C3	N/A

for Terminal Block:

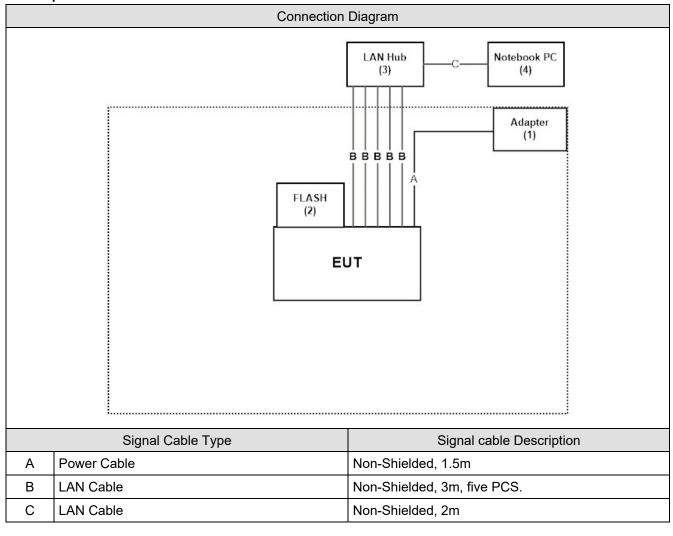
No.	Equipment	Brand Name	Model No.	Serial No.	Power Cord
1	FLASH	SanDisk	16GB Ultra Flair CZ73	N/A	N/A
2	Battery	BOSCH	60044	N/A	N/A
3	LAN Hub	TP-LINK	TL-SG108	2161597000480	Non-Shielded, 1.5m
4	Notebook PC	Lenovo	TP00067C	PF-0EW0C3	N/A

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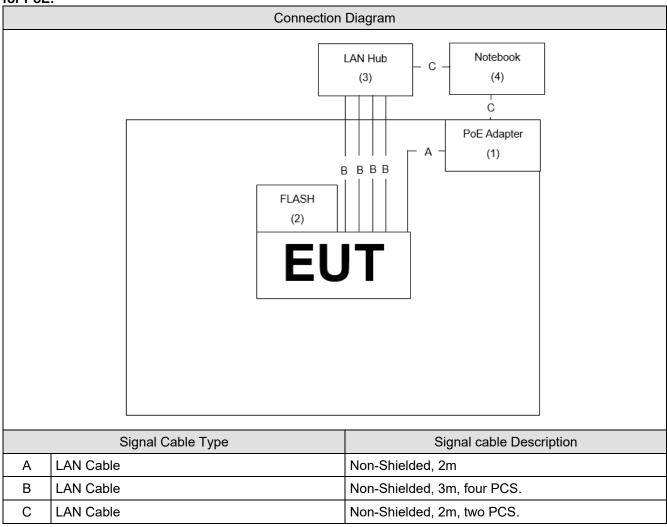
2.6. Configuration of Tested System

for Adapter:



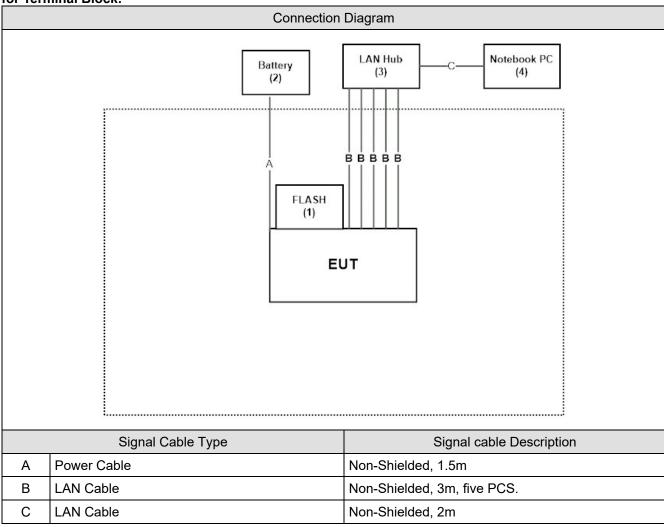


for PoE:





for Terminal Block:



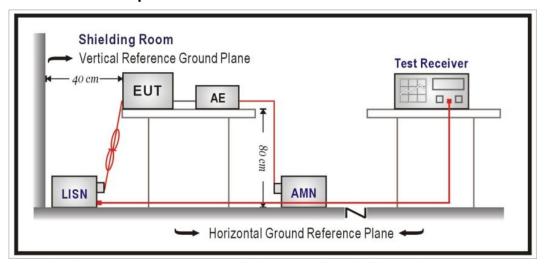
2.7. EUT Exercise Software

1	Setup the EUT as shown in Section 2.6.			
2	Execute software "Version QA 0.0.2.0" on the Notebook PC.			
3	Configure the test mode, the test channel, and the data rate.			
4	Press "OK" to start the continuous transmit.			
5	Verify that the EUT works properly.			



3. AC Power Line Conducted Emission

3.1. Test Setup



3.2. Test Limit

Frequency (MHz)	QP (dBuV)	AV (dBuV)
0.15 - 0.50	66 - 56 56 - 46	
0.50 - 5.0	56	46
5.0 - 30	60	50

Remarks: In the above table, the tighter limit applies at the band edges.

3.3. Test Procedure

The EUT was setup according to ANSI C63.10: 2013 for AC Power Line Conducted Emissions.

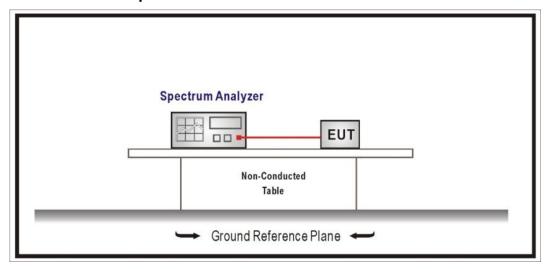
3.4. Test Result of AC Power Line Conducted Emission

Refer as Appendix A



4. 6dB Bandwidth

4.1. Test Setup



4.2. Test Limit

The 6 dB bandwidth: \geq 500 kHz.

4.3. Test Procedures

The EUT was setup according to ANSI C63.10: 2013; tested according to DTS test procedure of KDB 558074.

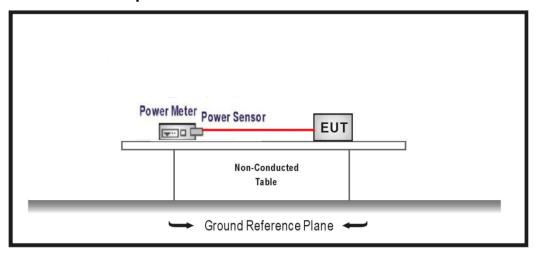
4.4. Test Result of DTS Bandwidth

Refer as Appendix B



5. Maximum Conducted Output Power

5.1. Test Setup



5.2. Test Limit

The maximum conducted output power shall be less 30 dBm (1 Watt).

5.3. Test Procedures

The EUT was setup according to ANSI C63.10: 2013; tested according to DTS test procedure of KDB 558074.

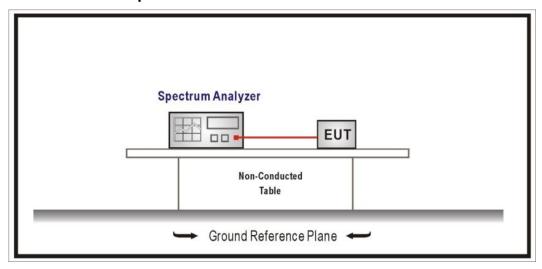
5.4. Test Result of Maximum Conducted Output Power

Refer as Appendix C



6. Power Spectral Density

6.1. Test Setup



6.2. Test Limit

The power spectral density conducted from the intentional radiated to the antenna shall not be greater than +8 dBm in any 3 kHz band during any time interval of continuous transmission.

6.3. Test Procedures

The EUT was setup according to ANSI C63.10: 2013; tested according to DTS test procedure of KDB 558074.

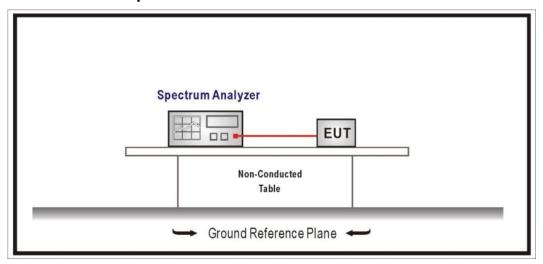
6.4. Test Result of Maximum Power Spectral Density

Refer as Appendix D



7. Antenna Port Conducted Emission

7.1. Test Setup



7.2. Test Limit

RF output power procedure	Limit (dBc)	
Peak output power procedure	20	
Average output power procedure	30	

Remarks:

- 1. In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limit.
- 2. If the transmitter complies with the conducted power limit based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

7.3. Test Procedure

The EUT was setup according to ANSI C63.10: 2013 and tested according to DTS test procedure of KDB 558074.

7.4. Test Result of Antenna Port Conducted Emission

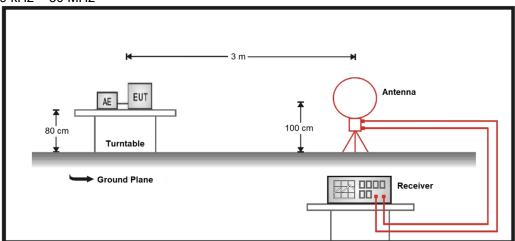
Refer as Appendix E



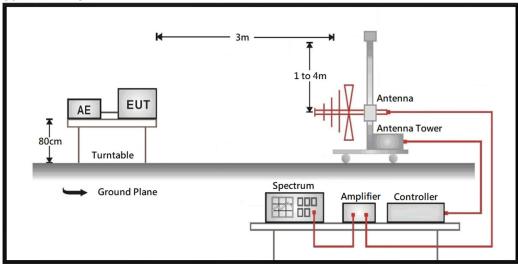
8. Radiated Emission

8.1. Test Setup

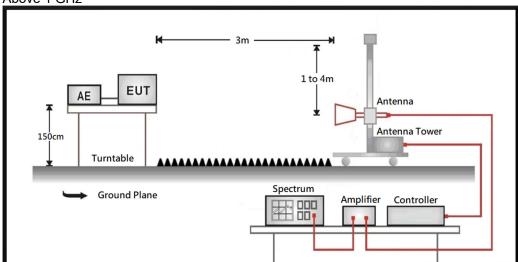
9 kHz ~ 30 MHz



30 MHz ~ 1 GHz



Above 1 GHz



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8.2. Test Limit

Frequency (MHz)	Field strength (uV/m)	Field strength (dBuV/m)	Measurement distance (m)
0.009 - 0.490	2400/F(kHz)	20 log (2400/F(kHz))	300
0.490 – 1.705	24000/F(kHz)	20 log (24000/F(kHz))	30
1.705 - 30	30	29.5	30
30 - 88	100	40	3
88 - 216	150	43.5	3
216 - 960	200	46	3
Above 960	500	54	3

Remarks:

- 1. Field strength (dBuV/m) = 20 log Field strength (uV/m)
- 2. In the Above Table, the tighter limit applies at the band edges.
- Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

8.3. Test Procedure

The EUT was setup according to ANSI C63.10: 2013 and tested according to DTS test procedure of KDB 558074.

The EUT and its simulators are placed on a turn table which is 0.8 or 1.5 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level.

The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level. Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.10: 2013 on radiated measurement.

On any frequency or frequencies form 9 kHz(inculde The the lowest oscillator frequency generated within the device up to the 10th harmonic) to 1000 MHz, the limit shown are based on measuring equipment employing a quasi-peak detector function and on any frequency or frequencies above 1000 MHz the radiated limit shown are based upon the use of measurement instrumentation employing an average detector function. When average radiated emission measurement are included emission measurement below 1000 MHz, there also is a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit.

The bandwidth below 1 GHz setting on the field strength meter is 120 kHz and above 1 GHz is 1 MHz.

8.4. Test Result of Radiated Emission

Refer as Appendix F