

Test Report No:
2620024R-RFUSV11S-A

TEST REPORT

FCC Rules & Regulations

Product Name	e-bike
Brand Name	ALSO
Model No.	TMB-CON
FCC ID	2BVBP-TMB-CON
Contains FCC ID	2ANPO00NRF9151
Applicant's Name / Address	ALSO INC 450 Lambert Ave, Palo Alto, CA 94306 USA
Manufacturer's Name	ALSO INC
Test Method Requested, Standard	FCC CFR Title 47 Part 15 Subpart F Section 15.519
Verdict Summary	IN COMPLIANCE
Documented by Jinn Chen	
Approved by Alan Chen	
Date of Receipt	2026/02/02
Date of Issue	2026/06/02
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.

IMPORTANT: 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	2026/06/02

Summary of Test Result

Report Clause	Test Items	Result (PASS/FAIL)	Remark
3	AC Power Line Conducted Emission	N/A	-
4	10 dB Bandwidth	PASS	-
5	RF Output Power	PASS	-
6	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.

1. General Information

1.1. EUT Description

Frequency Range	1800 ~ 10500 MHz
Operating Frequency / Channel Number	6489.6 MHz, 7987.2 MHz / 2 Channels
Type of Modulation	BPM-BPSK
Applied Standard	FCC CFR Title 47 Part 15 Subpart F Section 15.519 Technical requirements for hand held UWB systems

Antenna Information			
Item.	Brand Name	Part No.	Type
1	Hong-Bo	290-11602	PIFA

Note: The antenna of EUT conforms to FCC 15.203.

1.2. EUT Information

EUT Power Type	From Battery
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1.3. Testing Location Information

USA	FCC Designation Number: TW0033 / FCC Registration Number: 647365
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. 85, Wenlin St., Linkou Dist., New Taipei City 244017, 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	Tested By
Radiated Emission	Temperature (°C)	10~40 °C	24.2~24.3 °C	2026/01/22 ~	Nova Chu
	Humidity (%RH)	10~90 %	60~63.5 %	2026/03/06	

1.4. Measurement Uncertainty

Uncertainties have been calculated according to the DEKRA internal document.

The reported expanded uncertainties are based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95%.

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.

Test Item	Uncertainty
AC Power Line Conducted Emission	± 3.50 dB
10dB Bandwidth	± 1580.61 Hz
RF Output Power	± 4.17 dB
Radiated Emission	9 kHz~30 MHz: ± 3.30 dB 30 MHz~1 GHz: ± 4.79 dB 1 GHz~18 GHz: ± 4.17 dB 18 GHz~40 GHz: ± 3.32 dB

1.5. List of Test Equipment

For Radiated Measurements / HY-CB02

	Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Due Date
V	Loop Antenna	AMETEK	HLA6121	49611	2025/02/18	2026/02/17
V	Bi-Log Antenna	SCHWARZBECK	VULB9168	9168-0675	2025/08/14	2027/08/13
V	Horn Antenna	Com-Power	AH-840	101100	2025/10/07	2027/10/06
V	Horn Antenna	RF SPIN	DRH18-E	210503A18ES	2026/02/06	2028/02/05
V	Pre-Amplifier	Queitek	MPA0301	AP-180C	2026/01/10	2027/01/09
V	Pre-Amplifier	SGH	PRAMP118	20200203	2026/01/10	2027/01/09
V	Pre-Amplifier	EMCI	EMC05820SE	980285	2026/01/10	2027/01/09
V	Pre-Amplifier	EMCI	EMC184045SE	980369	2026/01/10	2027/01/09
V	Coaxial Cable	EMCI	EMC102-KM-KM-600	160311	2026/01/10	2027/01/09
V	Coaxial Cable	SGH	HC360-2.92M/2.92M-7.0M	202108-1	2026/01/10	2027/01/09
V	EMI Test Receiver	R&S	ESR3	102793	2025/12/01	2026/11/30
V	Spectrum Analyzer	R&S	FSV3044	101113	2025/12/23	2026/12/22
V	Coaxial Cable	SGH	HA800	GD20110223-2	2026/01/10	2027/01/09
V	Coaxial Cable	SGH	HA800	GD20110222-4	2026/01/10	2027/01/09
V	Coaxial Cable	SGH	SGH18	202108-5	2026/01/10	2027/01/09
V	Coaxial Cable	SGH	HA800-SMASMA-10M	202212-1	2026/01/10	2027/01/09

Note:

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

2. Test Configuration of EUT

2.1. Test Condition

EUT Operational Condition	
Testing Voltage	DC 12V by Battery

2.2. Test Frequency Mode

Test Software Version	cmd / Version 10.0.26100.7840
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Modulation	Frequency (MHz)	Power Setting
BPM-BPSK	6489.6	N/A
	7987.2	N/A

2.3. Measurement Configuration

Test Mode	Mode 1 (Transmit)	UWB
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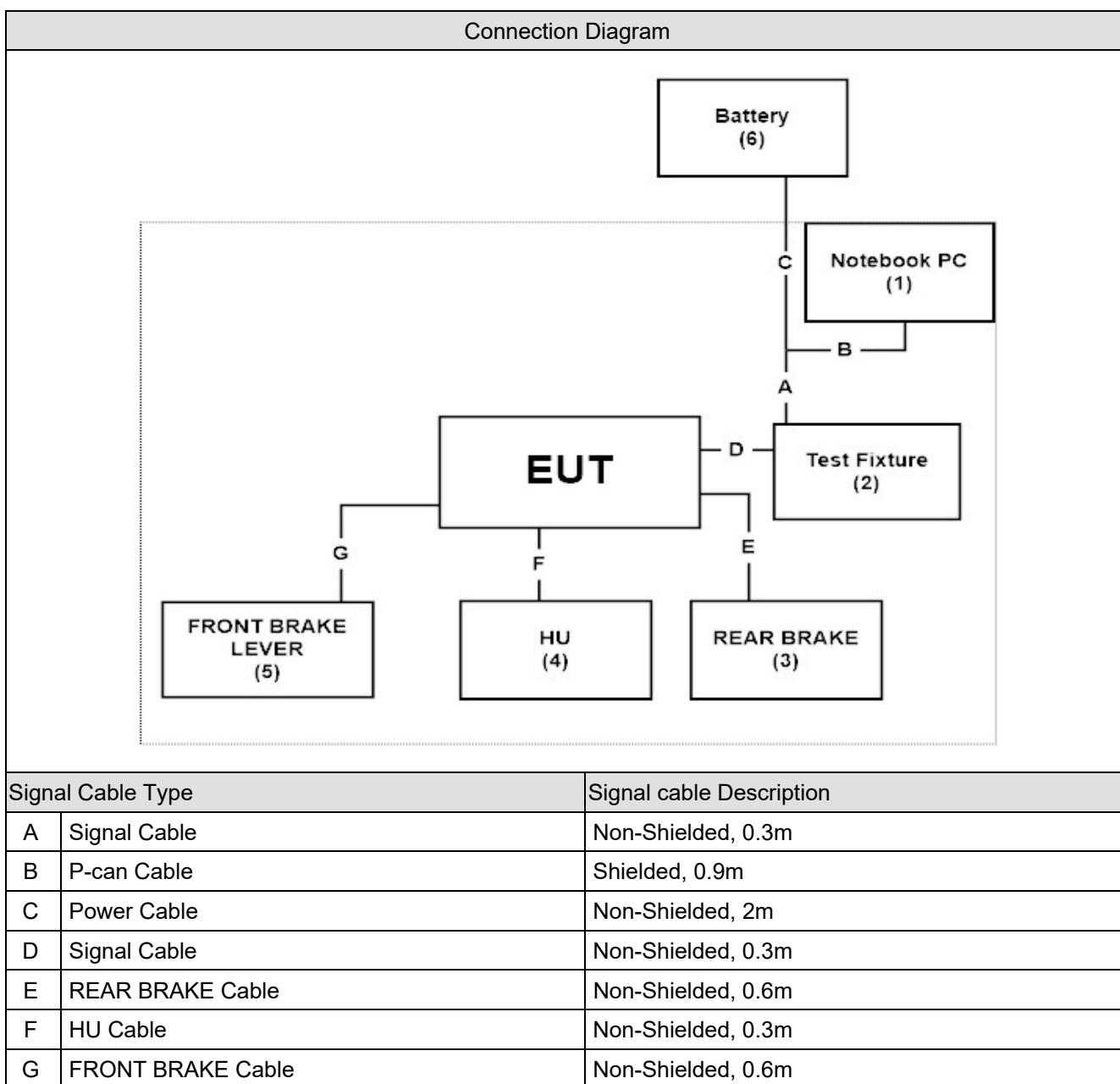
Note:

1. Determining compliance shall be based on the results of the compliance measurement, without taking measurement instrumentation uncertainty into account.
2. The radiation measurements are performed in the X, Y, and Z axis positions. Only the worst case is shown in the report.

2.4. Tested System Details

No.	Equipment	Brand Name	Model No.	Serial No.	Power Cord
1	Notebook PC	DELL	Latitude 5501	GS9GL13	N/A
2	Test Fixture	ALSO	N/A	N/A	N/A
3	REAR BRAKE	ALSO	N/A	N/A	N/A
4	HU	ALSO	N/A	N/A	N/A
5	FRONT BRAKE LEVER	ALSO	N/A	N/A	N/A
6	Battery	BOSCH	60044	N/A	N/A

2.5. Configuration of Tested System

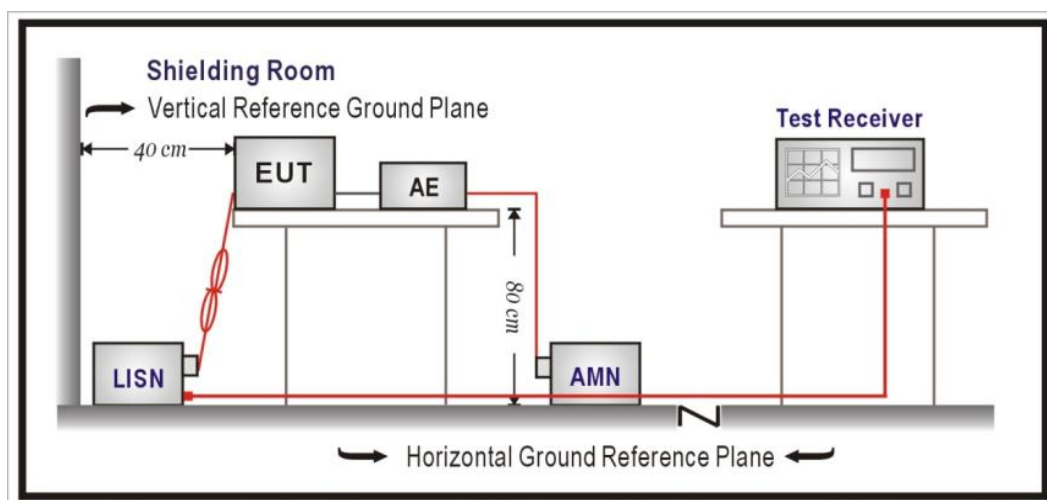


2.6. EUT Operating Procedures

1	Setup the EUT as shown in Section 2.5.
2	Provide the DC Power Source.
3	Start transmits continually.
4	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

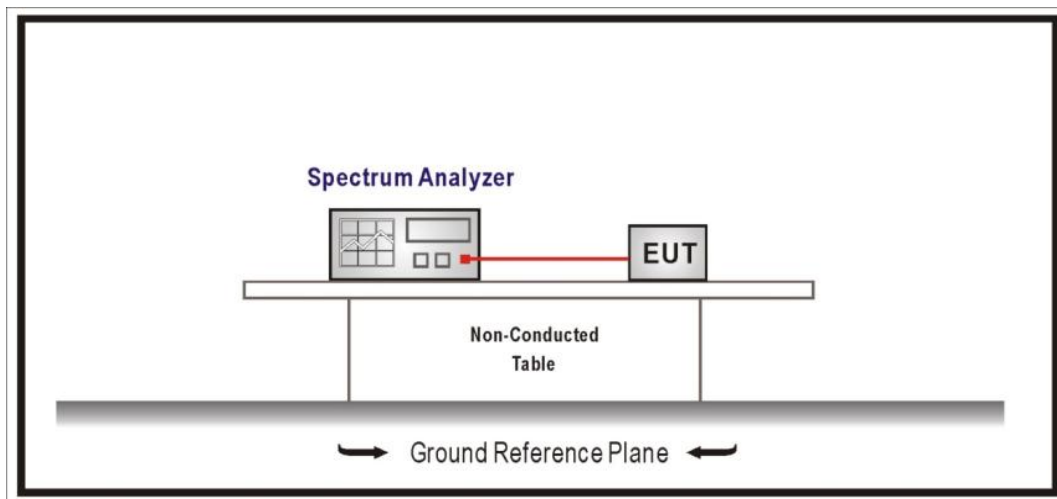
The EUT was setup according to ANSI C63.10-2020 for AC Power Line Conducted Emissions.

3.4. Test Result of AC Power Line Conducted Emission

Refer as Appendix A

4. 10 dB Bandwidth

4.1. Test Setup



4.2. Test Limit

The 10 dB bandwidth Within the designated 500-10600 MHz frequency band.

4.3. Test Procedures

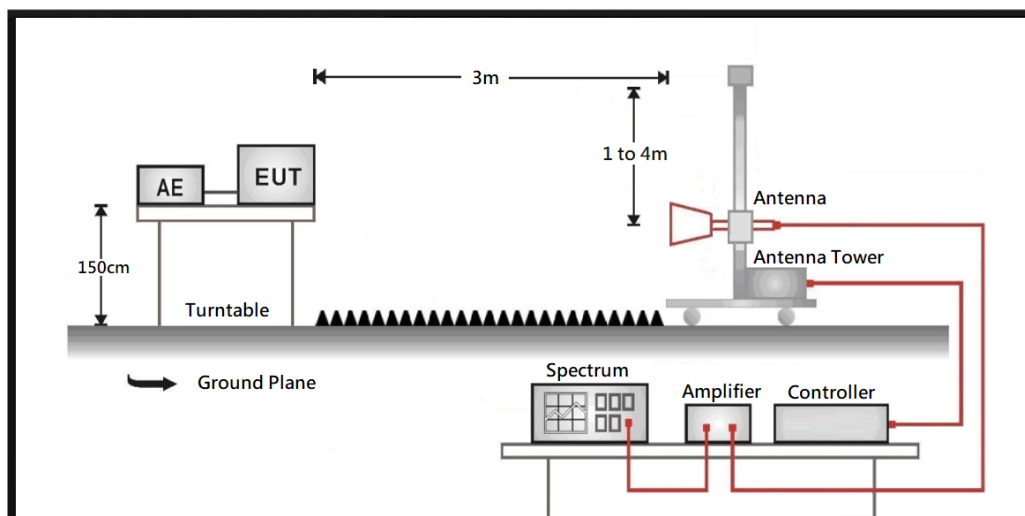
The EUT was setup according to ANSI C63.10-2020.

4.4. Test Result of 10dB Bandwidth

Refer as Appendix B

5. RF Output Power

5.1. Test Setup



5.2. Test Limit

The peak emission level contained within a 50 MHz bandwidth centered on fM must be limited to a maximum of 0 dBm EIRP.

5.3. Test Procedures

The EUT was setup according to ANSI C63.10:2020

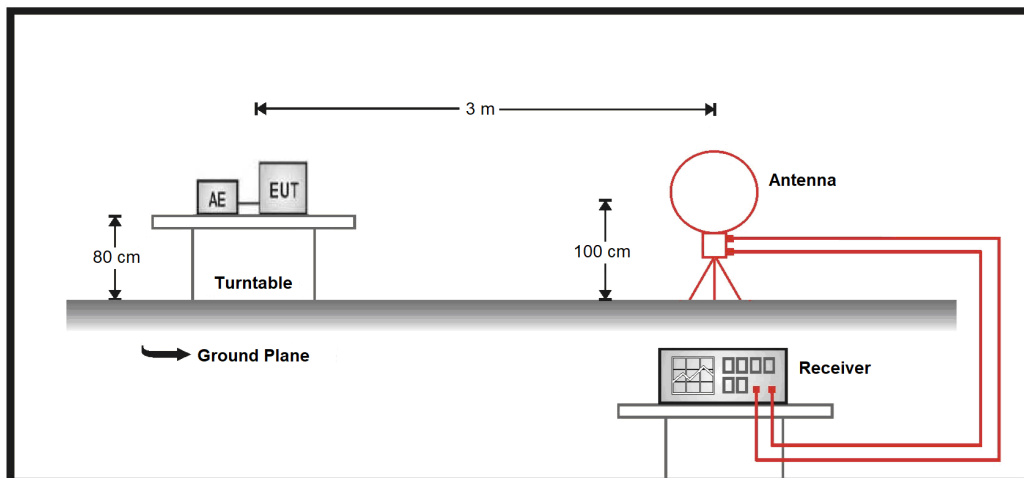
5.4. Test Result of RF Output Power

Refer as Appendix C

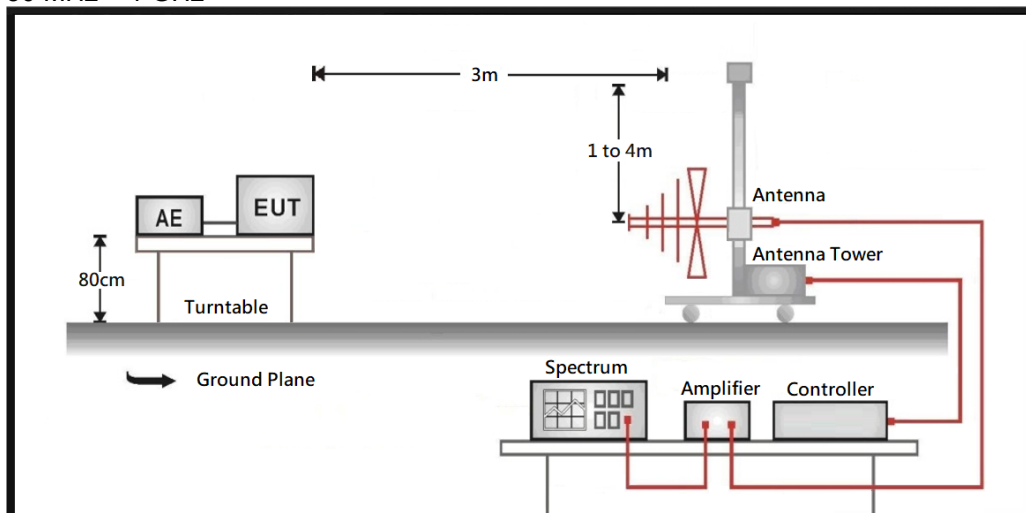
6. Radiated Emission

6.1. Test Setup

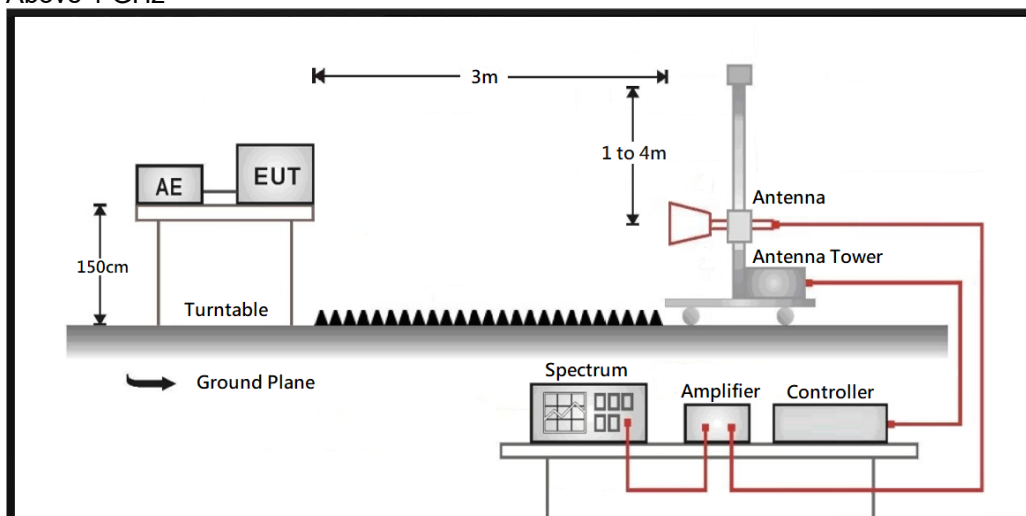
9 kHz ~ 30 MHz



30 MHz ~ 1 GHz



Above 1 GHz



6.2. 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.
3. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

The radiated emissions at or below 960 MHz from a device operating under the provisions of this section shall not exceed the emission levels in § 15.209. The radiated emissions above 960 MHz from a device operating under the provisions of this section shall not exceed the following average limits when measured using a resolution bandwidth of 1 MHz:

Frequency (MHz)	EIRP (dBm)
960 - 1610	-75.3
1610 - 1990	-63.3
1990 - 3100	-61.3
3100 - 10600	-41.3
Above 10600	-61.3

In addition to the radiated emission limits specified for frequency above 960 MHz, UWB transmitters operating under the provisions of this section shall not exceed the following average limits when measured using a resolution bandwidth of no less than 1 kHz in the GPS frequency bands

Frequency (MHz)	EIRP (dBm)
1164 - 1240	-85.3
1559 - 1610	-85.3

6.3. Test Procedure

The EUT was setup according to ANSI C63.10-2020.

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 C63.10-2020 on radiated measurement.

On any frequency or frequencies from 9 kHz (include 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.

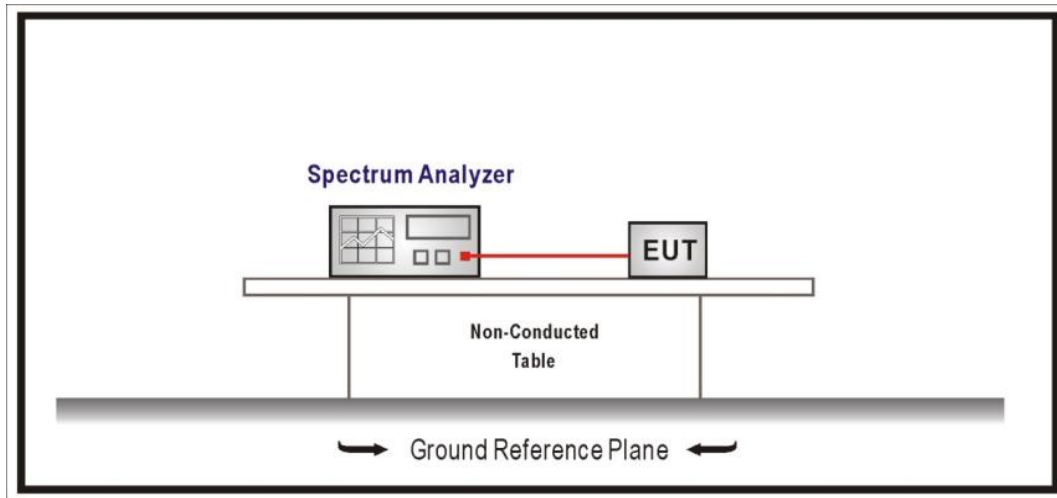
The bandwidth below 1 GHz setting on the field strength meter is 120 kHz and above 1 GHz is 1 MHz.

6.4. Test Result of Radiated Emission

Refer as Appendix D

7. Transmission Duration

7.1. Test Setup



7.2. Test Limit

A UWB device operating under the provisions of this section shall transmit only when it is sending information to an associated receiver. The UWB intentional radiator shall cease transmission within 10 seconds unless it receives an acknowledgement from the associated receiver that its transmission is being received. An acknowledgment of reception must continue to be received by the UWB intentional radiator at least every 10 seconds or the UWB device must cease transmitting.

7.3. Test Procedures

The EUT was setup according to ANSI C63.4

7.4. Test Result of Transmission Duration

Refer as Appendix E