

Test Report No:
2630351R-RFUSV09S-A

TEST REPORT

FCC Rules & Regulations

Product Name	Receiver
Brand Name	VAXEE
Model No.	VXD03, VXD03 P, VXD03 B, VXD03 W, VXD03 G, VXD03 LG, VXD03 DP, VXD03 LB, VXD03 FG, VXD03 O, VXD03 R, VXD03 LD, VXD03 GR, VXD03 SY, VXD03 AQ
FCC ID	2A9L8-VXD03
Applicant's Name / Address	VAXEE Corporation No. 61-3, Sec. 2, Jiayuan Rd., Shulin Dist., New Taipei City 23804 , Taiwan
Manufacturer's Name	VAXEE Corporation
Test Method Requested, Standard	FCC CFR Title 47 Part 15 Subpart C Section 15.249
Verdict Summary	IN COMPLIANCE
Documented By Ida Tung	<i>Ida Tung</i>
Approved By Alan Chen	<i>Alan Chen</i>
Date of Receipt	2026/03/12
Date of Issue	2026/05/27
Report Version	V1.0

INDEX

	page
Competences and Guarantees.....	4
General Conditions	4
Revision History	5
Summary of Test Result	6
1. General Information.....	7
1.1. EUT Description	7
1.2. EUT Information	8
1.3. Testing Applied Standards.....	8
1.4. Testing Location Information	9
1.5. Ambient Conditions In The Laboratory.....	10
1.6. Measurement Uncertainty	10
1.7. List of Test Equipment	11
2. Test Configuration of EUT	12
2.1. Test Condition	12
2.2. Test Frequency Mode	12
2.3. Duty Cycle	12
2.4. Measurement Configuration	13
2.5. Tested System Details	14
2.6. Configuration of Tested System	14
3. AC Power Line Conducted Emission	15
3.1. Test Setup.....	15
3.2. Test Limit	15
3.3. Test Procedure	15
3.4. Test Result of AC Power Line Conducted Emission.....	15
4. 20dB Bandwidth	16
4.1. Test Setup.....	16
4.2. Test Limit	16
4.3. Test Procedures.....	16
4.4. Test Result of 20dB Bandwidth	16
5. Field Strength of Fundamental Emissions	17
5.1. Test Setup.....	17
5.2. Test Limit	17
5.3. Test Procedures.....	18
5.4. Test Result of Field Strength of Fundamental Emissions.....	18
6. Radiated Emission.....	19
6.1. Test Setup.....	19

6.2.	Test Limit	20
6.3.	Test Procedure	20
6.4.	Test Result of Radiated Emission (Below 30 MHz).....	21
6.5.	Test Result of Radiated Emission.....	21
Appendix A. Test Result of AC Power Line Conducted Emission		
Appendix B. Test Result of 20dB Bandwidth		
Appendix C. Test Result of Field Strength of Fundamental Emissions		
Appendix D. Test Result of Radiated Emission		
Appendix E. Test Setup Photograph		

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	2026/05/27

Summary of Test Result

Report Clause	Test Items	Result (PASS/FAIL)	Remark
3	AC Power Line Conducted Emission	PASS	-
4	20dB Bandwidth	PASS	-
5	Field Strength of Fundamental Emissions	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 Band	2400 ~ 2483.5 MHz
Operating Frequency	2402 ~ 2480 MHz
Channel Number	40 Channels
Type of Modulation	GFSK

The difference for each model is shown as below:

Model No.	Description
VXD03, VXD03 P, VXD03 B, VXD03 W, VXD03 G, VXD03 LG, VXD03 DP, VXD03 LB, VXD03 FG, VXD03 O, VXD03 R, VXD03 LD, VXD03 GR, VXD03 SY, VXD03 AQ	There are fifteen different models, and the differences are only in the product appearance colors. VXD03 (Black), VXD03 P (Pink), VXD03 B (Light Blue), VXD03 W (White), VXD03 G (Gray), VXD03 LG (Mint Green), VXD03 DP (Dark Purple), VXD03 LB (Light Purple), VXD03 FG (Fluorescent Green), VXD03 O (Orange), VXD03 R (Red), VXD03 LD (Lotus Root Pink), VXD03 GR (Emerald Green), VXD03 SY (Orange Yellow), VXD03 AQ (Earth Blue)

From the above models, model: VXD03 was selected as representative model for the test and its data was recorded in this report.

Antenna Information				
No.	Brand Name	Part No.	Type	Gain (dBi)
1	VAXEE	VXD03	VAXEE VXD03	-6.24

Note: The antenna of EUT conforms to FCC 15.203.

Working Frequency of Each Channel							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	2402	01	2404	02	2406	03	2408
04	2410	05	2412	06	2414	07	2416
08	2418	09	2420	10	2422	11	2424
12	2426	13	2428	14	2430	15	2432
16	2434	17	2436	18	2438	19	2440
20	2442	21	2444	22	2446	23	2448
24	2450	25	2452	26	2454	27	2456
28	2458	29	2460	30	2462	31	2464
32	2466	33	2468	34	2470	35	2472
36	2474	37	2476	38	2478	39	2480

1.2. EUT Information

EUT Power Type	From USB		
EUT Function	☒	Point-to-multipoint	☐ Point-to-point

1.3. Testing Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ FCC CFR Title 47 Part 15 Subpart C Section 15.249
- ♦ ANSI C63.10-2020

The following reference test guidance is not within the scope of accreditation of TAF:

- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01

1.4. Testing Location Information

Testing Location Information			
Test Laboratory : DEKRA Testing and Certification Co., Ltd.			
V	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/Fax Number	TEL: +886-3-275-7255	FAX: +886-3-327-8031
	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	
	Address/ Performed Location	No.372-2, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County 31061, Taiwan, R.O.C.	
	Phone/Fax Number	TEL: +886-3-582-8001	FAX: +886-3-582-8958
	USA	Test site Designation No. TW3024 with FCC.	
	Canada	CAB Identifier Number: TW3024 / Company Number: 22397	
	Site Description	Accredited by TAF	
		Accredited Number: 3024	
	Address/ Performed Location	No.372, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County 31061, Taiwan, R.O.C.	
	Phone/Fax Number	TEL: +886-3-582-8001	FAX: +886-3-582-8958
	USA	Test site Designation No. TW3024 with FCC.	
	Canada	CAB Identifier Number: TW3024 / Company Number: 22397	
	Site Description	Accredited by TAF	
		Accredited Number: 3024	

1.5. Ambient Conditions In The Laboratory

Performed Item	Items	Required	Actual	Test Date	Tested By
AC Power Line	Temperature (°C)	10~40 °C	23.3~25.2 °C	2026/05/13	Michael Chen
Conducted Emission	Humidity (%RH)	10~90 %	51.5~52.6 %		
Radiated Emission	Temperature (°C)	10~40 °C	22.9~23.1 °C	2026/05/08 ~	Caster Liao
	Humidity (%RH)	10~90 %	60.1~60.5 %	2026/05/12	

1.6. 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	± 3.73 dB
20dB Bandwidth	± 1580.61 Hz
Field Strength of Fundamental Emissions	± 4.24 dB
Radiated Emission	9 kHz~30 MHz: ± 3.30 dB 30 MHz~1 GHz: ± 5.39 dB 1 GHz~18 GHz: ± 4.24 dB 18 GHz~40 GHz: ± 3.62 dB

1.7. 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	2026/04/20	2027/04/19
V	Two-Line V-Network	R&S	ENV216	101306	2026/03/27	2028/03/26
V	Two-Line V-Network	R&S	ENV216	101307	2025/08/06	2027/08/05
V	Coaxial Cable	SUHNER	RG400_BNC	RF001	2026/01/10	2027/01/09

Note:

1. Two-Line V-Network is calibrated every two years, the 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.

For Conducted Measurements / HY-SR02

	Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Due Date
V	Spectrum Analyzer	R&S	FSV30	103466	2025/12/18	2026/12/17
V	Power Meter	Anritsu	ML2496A	1947001	2025/12/22	2026/12/21
V	Power Sensor	Anritsu	MA2411B	1911082	2025/12/22	2026/12/21
V	Power Sensor	Anritsu	MA2411B	1911083	2025/12/22	2026/12/21

Note:

1. All equipment is calibrated every year.
2. The test instruments marked with "V" are used to measure the final test results.
3. Test Software Version : DTC_RF_Tool_Release V2.0.37

For Radiated Measurements /HY-CB01

	Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Due Date
V	Loop Antenna	TESEQ	HLA6121	49611	2026/02/04	2027/02/03
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	210802A18ES	2026/03/26	2028/03/25
V	Pre-Amplifier	SGH	SGH0301	20230308-1	2026/01/10	2027/01/09
V	Pre-Amplifier	EMCI	EMC051845SE	980632	2026/01/10	2027/01/09
V	Pre-Amplifier	EMCI	EMC05820SE	980362	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
	Coaxial Cable	SGH	HC360-2.92M/2.92M-7.0M	202108-1	2026/01/10	2027/01/09
V	Filter	MICRO TRONICS	BRM20887	G001	2026/01/05	2027/01/04
V	EMI Test Receiver	R&S	ESR3	102793	2025/12/01	2026/11/30
V	Spectrum Analyzer	R&S	FSV3044	101115	2025/12/22	2026/12/21
V	Coaxial Cable	SUHNER	SUCOFLEX 106	25450/6	2026/01/10	2027/01/09
V	Coaxial Cable	SUHNER	SUCOFLEX 106	36738-6	2026/01/10	2027/01/09
V	Coaxial Cable	SGH	HA800	202212-5	2026/01/10	2027/01/09
V	Coaxial Cable	EMCI	EMC106	151113	2026/01/10	2027/01/09

Note:

1. Bi-Log Antenna and Horn Antenna are calibrated every two years, the 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 5V by USB

2.2. Test Frequency Mode

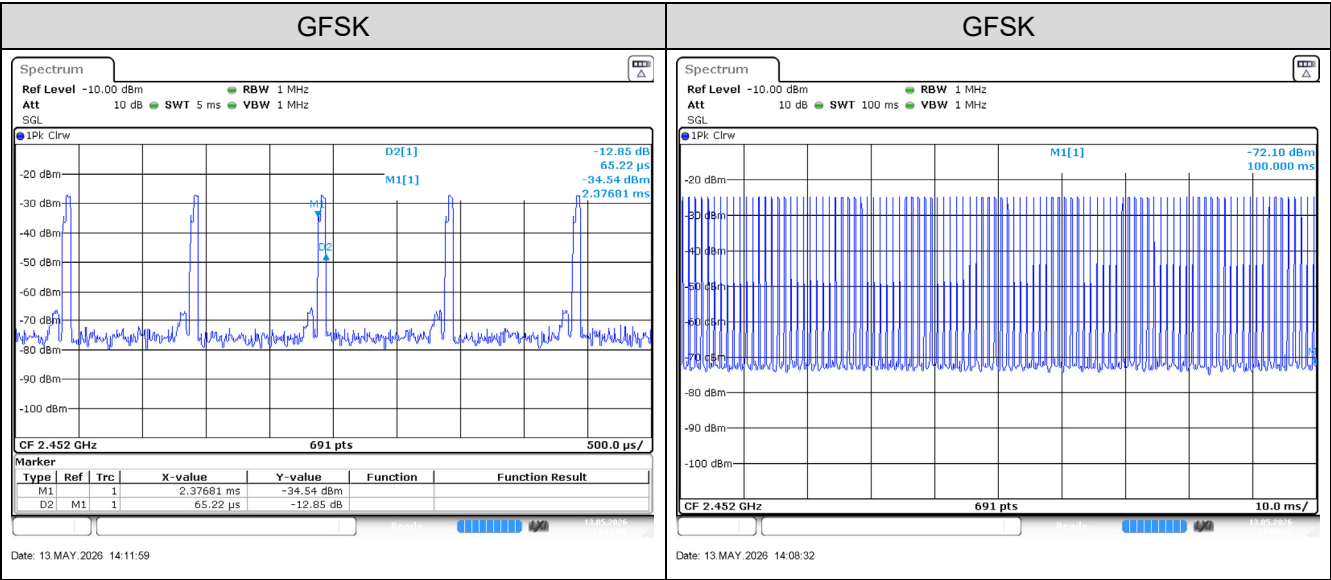
Test Software Version	PXI_LINK-II_Tool / Version 1.1.1
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Modulation	Frequency (MHz)	Power Setting
GFSK	2402	0
	2440	0
	2480	0

2.3. Duty Cycle

Modulation or Mode	Time on of 100 ms (ms)	Duty Cycle (Ton/100 ms)	Duty Cycle Correction Factor (dB)
GFSK	6.52	0.06522	-23.712

Note: Duty Cycle Correction Factor = 20*Log(Duty Cycle).



2.4. Measurement Configuration

Tests Item	AC Power Line Conducted Emission
Test Condition	AC power line conducted measurement for line and neutral
Operating Mode	Transmit

Tests Item	20dB Bandwidth Field Strength of Fundamental Emissions Radiated Emission
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.
Operating Mode < 1GHz	Transmit
Operating Mode > 1GHz	Transmit

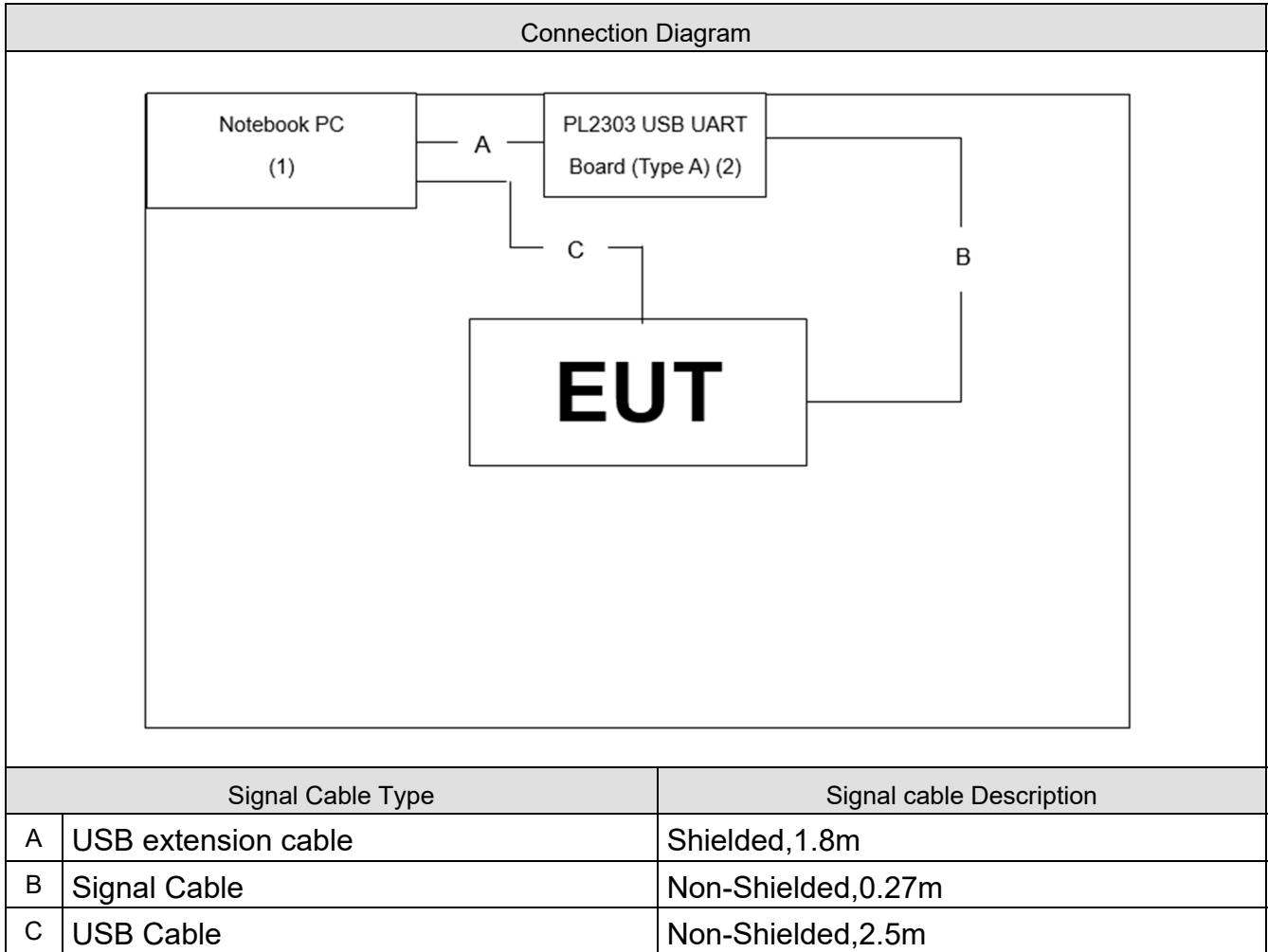
Note:

1. Determining compliance shall be based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.
2. Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
3. 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.

2.5. Tested System Details

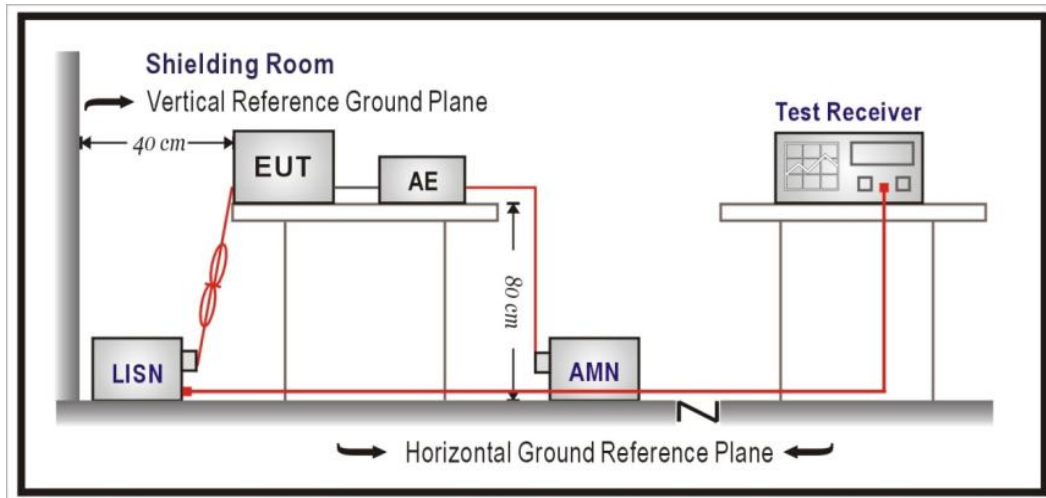
No.	Equipment	Brand Name	Model No.	Serial No.	Power Cord
1	Notebook PC	Notebook PC	Lenovo	TP00067C	N/A
2	PL2303 USB UART Board (Type A)	DEKRA	PL2303 USB UART Board (Type A)	N/A	N/A

2.6. Configuration of Tested System



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

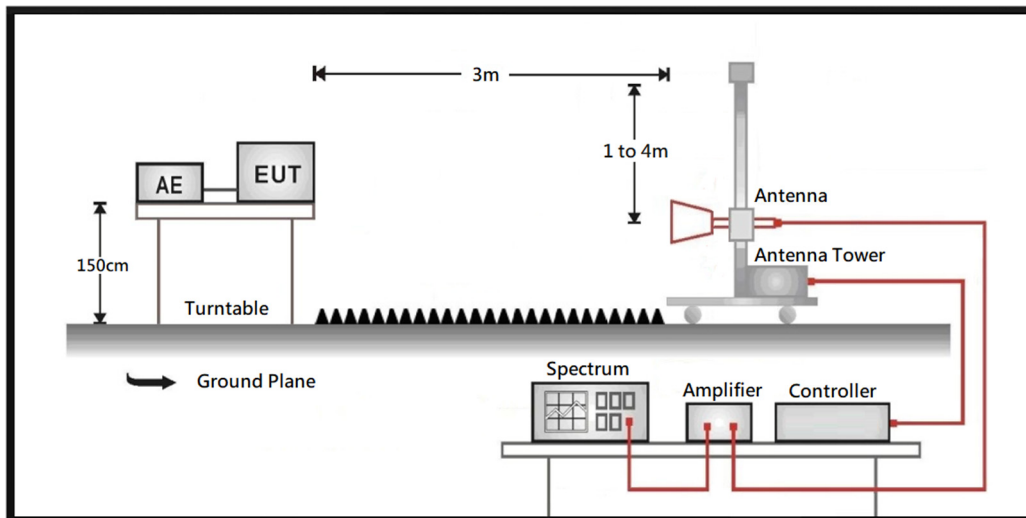
The EUT was setup according to ANSI C63.10-2020 for AC Power Line Conducted Emissions.

3.4. Test Result of AC Power Line Conducted Emission

Refer as Appendix A

4. 20dB Bandwidth

4.1. Test Setup



4.2. Test Limit

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20dB bandwidth of the emission, or whatever 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.

4.3. Test Procedures

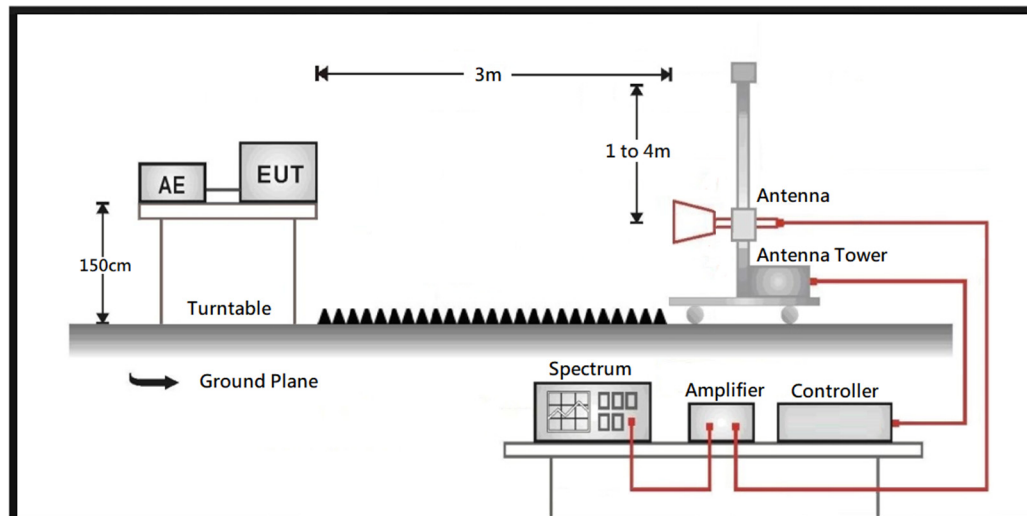
The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. Both horizontal and vertical polarizations of the antenna are set to make the measurement. The EUT was placed on a turntable with 1.5m above ground. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower. The fundamental frequency's bandwidth was measured using a spectrum analyzer, following the setup defined by ANSI C63.10-2020. The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

4.4. Test Result of 20dB Bandwidth

Refer as Appendix B

5. Field Strength of Fundamental Emissions

5.1. Test Setup



5.2. Test Limit

The field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental Frequency (MHz)	Field Strength of Fundamental (millivolts/meter)	Field Strength of Harmonics (microvolts/meter)
902 ~ 928	50	500
2400 ~ 2483.5	50	500
5725 ~ 5875	50	500
24000 ~ 24250	250	2500

Note :

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBμV/m) = 20 log Emission level (μV/m).
3. Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limit in §15.209, whichever is the lesser attenuation.
4. For frequencies above 1000 MHz, the field strength limit are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limit, specified above by more than 20 dB under any condition of modulation.

5.3. Test Procedures

The EUT and all the supporting units are placed on a turn table which is 1.5 meters 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.

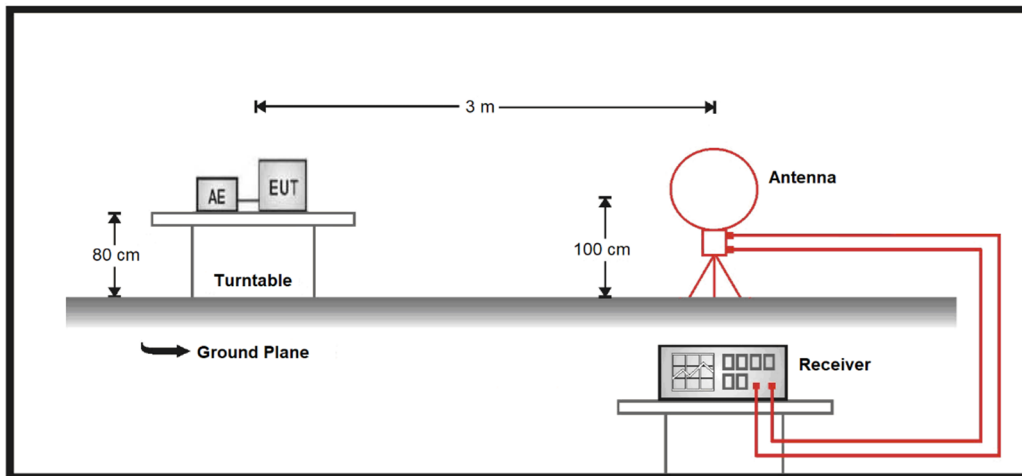
5.4. Test Result of Field Strength of Fundamental Emissions

Refer as Appendix C

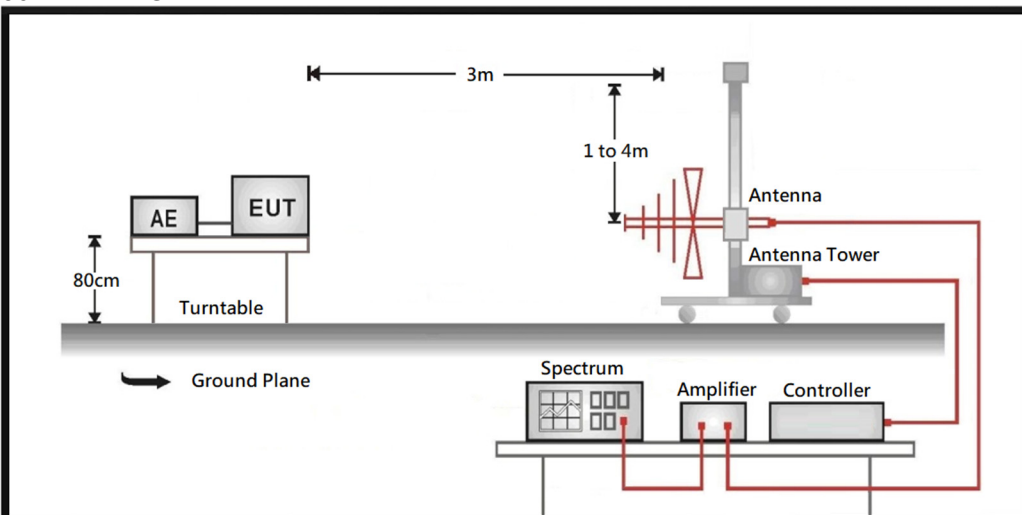
6. Radiated Emission

6.1. Test Setup

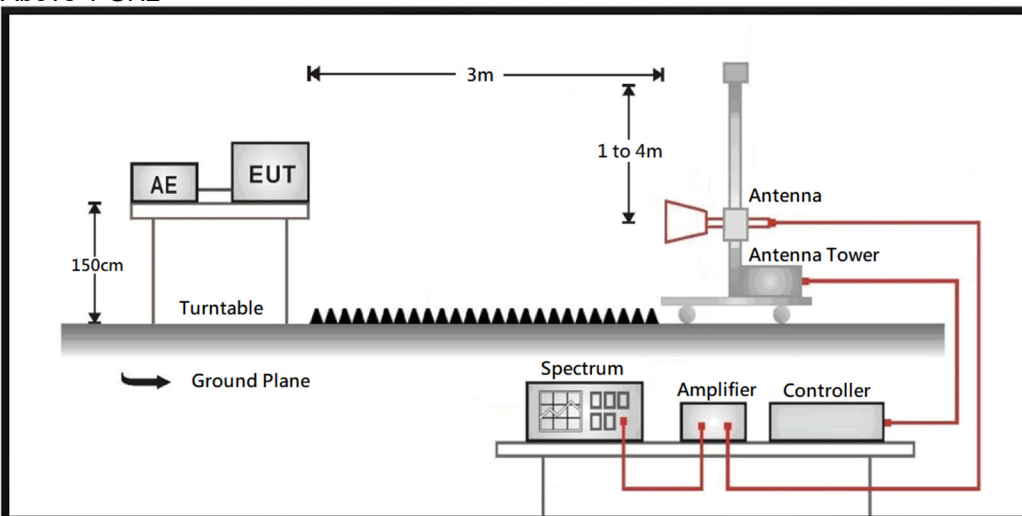
9 kHz ~ 30 MHz



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.

6.3. Test Procedure

The EUT and all the supporting units are placed on a turn table which is 0.8 or 1.5 meters 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 (Below 30 MHz)

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

6.5. Test Result of Radiated Emission

Refer as Appendix D