

EMC Test Report

Applicant : ASUSTeK COMPUTER INC.
Applicant Address : 1F., No. 15, Lide Rd., Beitou Dist., Taipei City 112, Taiwan
Product Name : Handheld Console PC
Trade Name : ASUS
Model Number : RC73XA
Applicable Standard : FCC 47 CFR PART 15 SUBPART B
ANSI C63.4: 2014
ANSI C63.4a: 2017
Received Date : Feb. 08, 2025
Test Period : Feb. 20, 2025 ~ Mar. 01, 2025
Issued Date : Apr. 02, 2025

Issued by

Eurofins E&E Wireless Taiwan Co., Ltd.
No. 140-1, Changan Street, Bade District,
Taoyuan City, Taiwan (R.O.C.)
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Taiwan Accreditation Foundation accreditation number: 1330
Test Firm MRA designation number: TW1062
Certified Scope: 9 kHz ~ 40 GHz

Note:

- 1.The test results are valid only for samples provided by customers and under the test conditions described in this report.
- 2.This report shall not be reproduced except in full, without the written approval of Eurofins E&E Wireless Taiwan Co., Ltd.
- 3.The relevant information is provided by customers in this test report. According to the correctness, appropriateness or completeness of the information provided by the customer, if there is any doubt or error in the information which affects the validity of the test results, the laboratory does not take the responsibility.

Revision History

Rev.	Issued Date	Description	Revised By
00	Apr. 02, 2025	Initial Issue	Rowan Hsieh

Verification of Compliance

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Test Result : Complied

Performing Lab. : Eurofins E&E Wireless Taiwan Co., Ltd.
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The above equipment has been tested by Eurofins E&E Wireless Taiwan Co., Ltd., and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Approved By : _____

Responsible party:

For products subject to authorization under Supplier's Declaration of Conformity, Asus Computer International shall be the responsible party, as designated in §2.909, of ASUSTeK COMPUTER INC. The name, address and telephone number of Asus Computer International will be provided within the compliance information supplied with the products.



Representative :

Steve Chang / President

TABLE OF CONTENTS

1	General Information	6
1.1.	Summary of Test Result	6
1.2.	Testing Location	6
1.3.	Measurement Uncertainty	7
1.4.	Test Site Environment	8
2	EUT Description.....	9
3	Test Methodology.....	11
3.1.	Decision of Test Mode.....	11
3.2.	EUT Test Step.....	13
3.3.	Configuration of Test System Details	14
3.4.	Test Instruments.....	16
4	Measurement Procedure.....	18
4.1.	Conducted Emission	18
4.2.	Radiated Emission	20
5	Requirements and Performance Criteria.....	24
5.1.	Conducted Emission	24
5.2.	Radiated Emission	25
6	Test Result	26
6.1.	Conducted Emission	26
6.2.	Radiated Emission	37

Appendix A. Test Setup Photographs

1 General Information

1.1. Summary of Test Result

Emission			
Standard	Item	Result	Remark
FCC 47 CFR PART 15 SUBPART B ANSI C63.4 ANSI C63.4a	Conducted Emission	PASS	Meet Class B limit Minimum margin is -8.68 dB at 18.2180 MHz
	Radiated Emission below 1 GHz	PASS	Meet Class B limit Minimum margin is -4.10 dB at 146.3735 MHz / 369.4047 MHz
	Radiated Emission above 1 GHz	PASS	Meet Class B limit Minimum margin is -6.11 dB at 17915.000 MHz

Decision Rule

- Uncertainty is not included.
- Uncertainty is included.

1.2. Testing Location

Lab Name: Eurofins E&E Wireless Taiwan Co., Ltd.

Site Address: No. 140-1, Changan Street, Bade District, Taoyuan City, Taiwan (R.O.C.)

Site Address: No. 2, Wuquan 5th Rd. Wugu Dist., New Taipei City, Taiwan (R.O.C.)

1.3. Measurement Uncertainty

The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2

Test Item		Test Site	Frequency Range	Uncertainty (dB)
Conducted Emission	AC Power Port	Conduction01-BD	9 kHz ~ 150 kHz	± 2.7
			150 kHz ~ 30 MHz	± 2.7
		Conduction01-WG	9 kHz ~ 150 kHz	± 2.6
			150 kHz ~ 30 MHz	± 2.9

Test Item	Test Site	Frequency Range	Uncertainty (dB)	
Radiated Emission	10M-BD	30 MHz ~ 1000 MHz	Horizontal	± 4.9
			Vertical	± 5.1
	96601-BD	30 MHz ~ 1000 MHz	30 MHz ~ 1000 MHz	± 4.9
			1000 MHz ~ 6000 MHz	± 4.8
			6000 MHz ~ 18000 MHz	± 5.1
			18000 MHz ~ 26500 MHz	± 4.2
			26500 MHz ~ 40000 MHz	± 4.1
	96602-BD	30 MHz ~ 1000 MHz	30 MHz ~ 1000 MHz	± 4.9
			1000 MHz ~ 6000 MHz	± 4.7
			6000 MHz ~ 18000 MHz	± 4.6
			18000 MHz ~ 26500 MHz	± 4.0
			26500 MHz ~ 40000 MHz	± 4.1
	96601-WG	30 MHz ~ 1000 MHz	30 MHz ~ 1000 MHz	± 4.7
			1000 MHz ~ 6000 MHz	± 4.2
			6000 MHz ~ 18000 MHz	± 4.3
			18000 MHz ~ 26500 MHz	± 3.4
			26500 MHz ~ 40000 MHz	± 3.4

1.4. Test Site Environment

Test Item	Items	Required (IEC 60068-1)	Interval(*)
Conducted Emission	Temperature (°C)	15-35	15-30
	Humidity (%RH)	25-75	45-75
	Barometric pressure (mbar)	860-1060	990-1005
Radiated Emission	Temperature (°C)	15-35	15-30
	Humidity (%RH)	25-75	45-75
	Barometric pressure (mbar)	860-1060	990-1005

(*)The measurement ambient temperature is within this range.

2 EUT Description

The product specifications of the EUT presented in the report are declared by the manufacturer who shall take full responsibility for the authenticity.

Applicant	ASUSTeK COMPUTER INC. 1F., No. 15, Lide Rd., Beitou Dist., Taipei City 112, Taiwan
Product Name	Handheld Console PC
Trade Name	ASUS
Model Number	RC73XA
I/O Ports	Refer to the user manual provided by clients.
Highest Operating Frequency	7.125 GHz
EUT Power Rating	DC 20 V, 3.25 A / DC 20 V, 5 A

Keypart List:

Description	Vendor	Model No.	Spec.
Mainboard	ASUS	RC73XA	---
CPU	AMD	Ryzen Z2 Extreme	PIN number: 1270
On board Memory	---	---	32 G
	---	---	24 G
M.2 SSD	MICRON	MTFDKBA2T0QGN	2 TB
	Western Digital	SDEQNSJ-2T00-1002	2 TB
	HYNIX	HFS001TEM9X174N	1 TB
	MICRON	MTFDKBA1T0QGN	1 TB
	Western Digital	SDEQNSJ-1T00-1002	1 TB
	HYNIX	HFS512GEM9X174N	512 GB
	MICRON	MTFDKBA512QGN	512 GB
LCD	TIANMA	TL070FVXS01	LCD TOUCH SCREEN 7.0' FHD GL EDP 120 HZ
	BOE	TS070FHM-LU0	LCD TOUCH SCREEN 7.0' FHD GL EDP 120 HZ
Battery	SIMPLO	C41N2406	Rating: 15.6 VDC, 5130 mAh(Typical) / 4980 mAh(Rated)
Wireless Module	MediaTek	MT7922A12L	WIFI6E AX+BT5.2(2*2)M.2 1216
Adapter	Delta	ADP-65JW Y	Input: AC 100-240 V~, 50/60 Hz, 1.5 A Output: DC 5 V, 3 A, 15 W / DC 9 V, 3 A / DC 15 V, 3 A / DC 20 V, 3.25 A, 65 W Cable out: Non-Shielded, 1.95 m
	Delta	ADP-65SD D	Input: AC 100-240 V~, 50/60 Hz, 1.5 A Output: DC 5 V, 3 A, 15 W / DC 9 V, 3 A / DC 15 V, 3 A / DC 20 V, 3.25 A, 65 W Cable out: Non-Shielded, 1.6 m
	Chicony	W23-065N2A	Input: AC 100-240 V~, 50/60 Hz, 1.5 A Output: DC 5 V, 3 A, 15 W / DC 9 V, 3 A / DC 15 V, 3 A / DC 20 V, 3.25 A, 65 W PPS: 5 – 21 V, 3.25 A, 65 W Max Cable out: Non-Shielded, 1.95 m
	Chicony	A20-100P1A	Input: AC 100-240 V~, 50/60 Hz, 1.6 A Output: DC 5 V, 3 A, 15 W / DC 9 V, 3 A / DC 15 V, 3 A / DC 20 V, 5 A, 100 W Cable out: Non-Shielded, 1.5 m

3 Test Methodology

3.1. Decision of Test Mode

3.1.1. The following test mode(s) were scanned during the preliminary test:

Pre-Test Mode	
Mode 1:	LCD 1920 x 1080 / 120 Hz + Bluetooth + Wi-Fi link + Earphone + Micro SD Card + USB Type-C (HDD) + USB Type-C (Adapter: ADP-65SD D) (AC 120 V, 60 Hz)
Mode 2:	LCD 1920 x 1080 / 120 Hz + Bluetooth + Wi-Fi link + Earphone + Micro SD Card + USB Type-C out 3840 x 2160 / 60 Hz + USB Type-C (Adapter: ADP-65SD D) (AC 120 V, 60 Hz)
Mode 3:	LCD 1920 x 1080 / 120 Hz + Bluetooth + Wi-Fi link + Earphone + Micro SD Card + USB Type-C out 3840 x 2160 / 60 Hz + USB Type-C (Adapter: A20-100P1A) (AC 120 V, 60 Hz)
Mode 4:	LCD 1920 x 1080 / 120 Hz + Bluetooth + Wi-Fi link + Earphone + Micro SD Card + USB Type-C out 3840 x 2160 / 60 Hz + USB Type-C (Adapter: ADP-65JW Y) (AC 120 V, 60 Hz)
Mode 5:	LCD 1920 x 1080 / 120 Hz + Bluetooth + Wi-Fi link + Earphone + Micro SD Card + USB Type-C (Adapter: W23-065N2A) + USB Type-C out 3840 x 2160 / 60 Hz (AC 120 V, 60 Hz)
Mode 6:	LCD 1920 x 1080 / 120 Hz + Bluetooth + Wi-Fi link + Earphone + Micro SD Card + USB Type-C out 3840 x 2160 / 60 Hz + USB Type-C (Adapter: ADP-65SD D) (AC 240 V, 60 Hz)

3.1.2. After the preliminary scan, the following test mode was final mode and found to produce the highest emission level.

Final Test Mode			
Emission	Conducted Emission	Mode 2 / Mode 3 / Mode 4 / Mode 5	
	Radiated Emission	Below 1 GHz	Mode 2 / Mode 3 / Mode 4 / Mode 5
		Above 1 GHz	Mode 2 / Mode 3 / Mode 4 / Mode 5

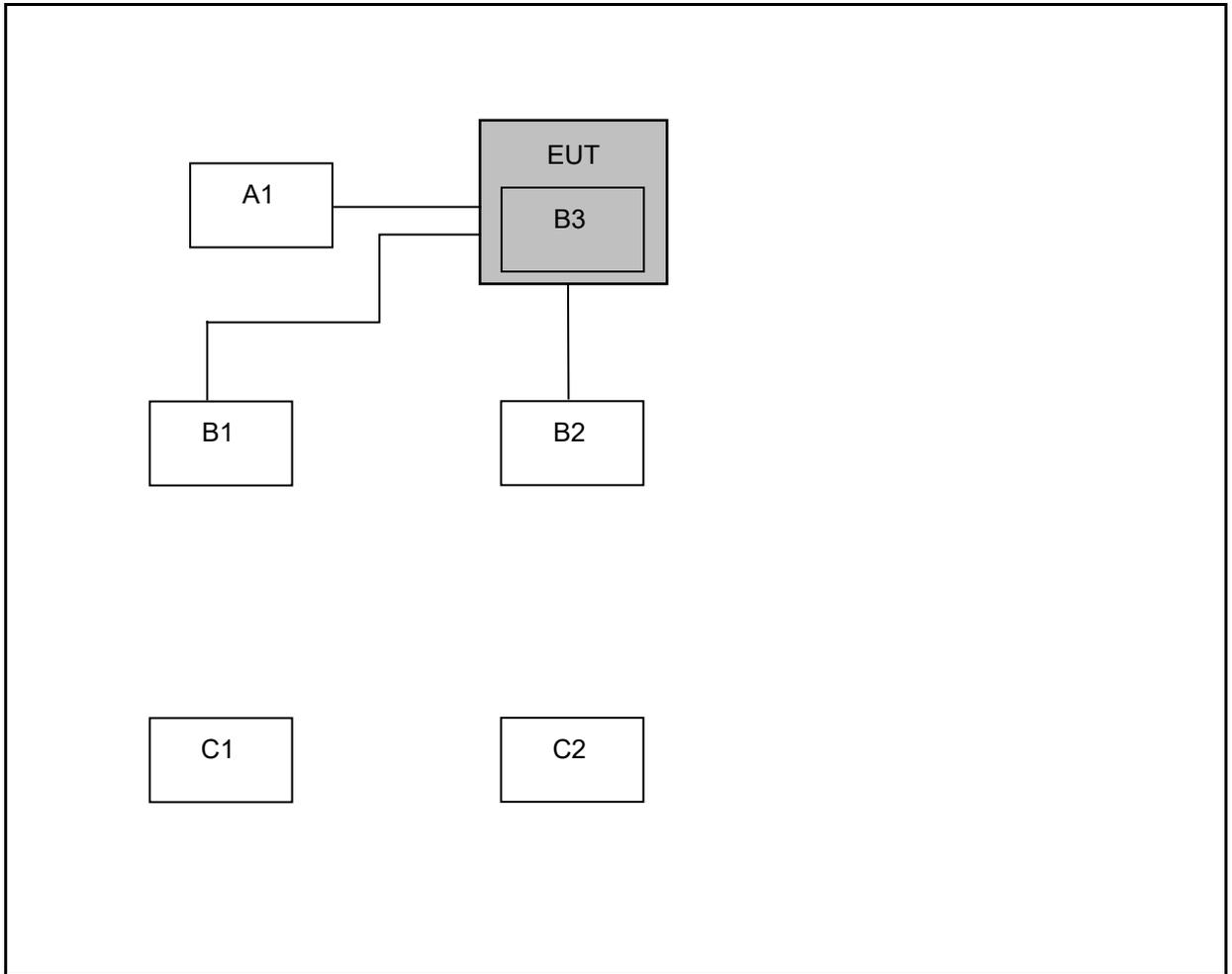
Matrix:

Description	Vendor	Model No.	Spec.	Mode					
				1	2	3	4	5	6
Mainboard	ASUS	RC73XA	---	V	V	V	V	V	V
CPU	AMD	Ryzen Z2 Extreme	PIN number: 1270	V	V	V	V	V	V
On board Memory	---	---	32 G			V	V		
	---	---	24 G	V	V			V	V
M.2 SSD	MICRON	MTFDKBA2T0QGN	2 TB	V	V			V	V
	Western Digital	SDEQNSJ-2T00-1002	2 TB				V		
	HYNIX	HFS001TEM9X174N	1 TB			V			
	MICRON	MTFDKBA1T0QGN	1 TB						
	Western Digital	SDEQNSJ-1T00-1002	1 TB						
	HYNIX	HFS512GEM9X174N	512 GB						
	MICRON	MTFDKBA512QGN	512 GB						
LCD	TIANMA	TL070FVXS01	LCD TOUCH SCREEN 7.0' FHD GL EDP 120 HZ	V	V			V	V
	BOE	TS070FHM-LU0	LCD TOUCH SCREEN 7.0' FHD GL EDP 120 HZ			V	V		
Battery	SIMPLO	C41N2406	Rating: 15.6 VDC, 5130 mAh(Typical) / 4980 mAh(Rated)	V	V	V	V	V	V
Wireless Module	MediaTek	MT7922A12L	WIFI6E AX+BT5.2(2*2)M.2 1216	V	V	V	V	V	V
Adapter	Delta	ADP-65JW Y	Input: AC 100-240 V~, 50/60 Hz, 1.5 A Output: DC 5 V, 3 A, 15 W / DC 9 V, 3 A / DC 15 V, 3 A / DC 20 V, 3.25 A, 65 W Cable out: Non-Shielded, 1.95 m				V		
	Delta	ADP-65SD D	Input: AC 100-240 V~, 50/60 Hz, 1.5 A Output: DC 5 V, 3 A, 15 W / DC 9 V, 3 A / DC 15 V, 3 A / DC 20 V, 3.25 A, 65 W Cable out: Non-Shielded, 1.6 m	V	V				V
	Chicony	W23-065N2A	Input: AC 100-240 V~, 50/60 Hz, 1.5 A Output: DC 5 V, 3 A, 15 W / DC 9 V, 3 A / DC 15 V, 3 A / DC 20 V, 3.25 A, 65 W PPS: 5 – 21 V, 3.25 A, 65 W Max Cable out: Non-Shielded, 1.95 m					V	
	Chicony	A20-100P1A	Input: AC 100-240 V~, 50/60 Hz, 1.6 A Output: DC 5 V, 3 A, 15 W / DC 9 V, 3 A / DC 15 V, 3 A / DC 20 V, 5 A, 100 W Cable out: Non-Shielded, 1.5 m			V			

3.2. EUT Test Step

1. Setup the EUT and simulators as shown on 3.3.
2. Turn on the power all equipment.
3. According to the user manual choose mode and adjust resolution.
4. The EUT link to Bluetooth headset by Bluetooth.
5. The EUT link to AP by Wi-Fi.
6. Connected Micro SD Card and transfer data (SD Card Read / Write: BurnIn).
7. Perform EMC test program and run "H" pattern.
8. Start to test till get the worst reading.

3.3. Configuration of Test System Details



Test Setup						
No.	Setup Peripherals	Connection type	Test Mode			
			2	3	4	5
A1	Adapter	USB Type-C Cable	V	V	V	V
B1	Monitor	Type-C DP Cable	V	V	V	V
B2	Earphone & Microphone	Audio Cable	V	V	V	V
B3	Micro SD Card	SD I/O interface Without Cable	V	V	V	V
C1	AP	Wi-Fi	V	V	V	V
C2	Bluetooth Headset	BT	V	V	V	V

Support Unit used in test configuration and system						
	Product	Trade Name	Model Number	Serial Number	Data Cable	Power Cord
(1)	Monitor	ASUS	PA279CV	M7LMTF236116	Shielded, 1.2 m	Non-Shielded, 1.8 m with one core
(2)	Earphone & Microphone	SeeHot	SH-MHS500	N/A	Non-Shielded, 1.2 m	N/A
(3)	Micro SD Card	Transcend	64 GB	N/A	N/A	N/A
(4)	AP	ASUS	GT-AXE11000	M2IAJF2000200	N/A	Non-Shielded, 0.8 m
(5)	Bluetooth headset	SONY	WI-SP500	N/A	N/A	N/A

3.4. Test Instruments

Test Period: Feb. 20, 2025

Testing Engineer: Chichang Lin

Conducted Emission test site					
Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period
Test Receiver	R&S	ESCI	100367	May 21, 2024	1 year
LISN	R&S	ENV216	101040	Mar. 21, 2024	1 year
Cable	Woken	00100D1380194M	TE-02-03 (CB-098)	Jun. 05, 2024	1 year
Test Site	Eurofins	Conduction01-BD	Conduction01-BD	N.C.R.	-----
Software	EZ EMC	1.1.4.3	-----	-----	-----

Test Period: Mar. 01, 2025

Testing Engineer: Dean Ho

Radiated Emission - 10 Meter Chamber					
Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period
Amplifier	EMCI	EMC9135	980298	Oct. 24, 2024	1 year
Amplifier	EMCI	EMC9135	980299	Nov. 25, 2024	1 year
Test Receiver	R&S	ESCI	101000	Nov. 21, 2024	1 year
Test Receiver	R&S	ESCI	100722	Oct. 24, 2024	1 year
Broadband Antenna	Schwarzbeck	SB AC VULB	9168-671	Dec. 25, 2024	1 year
Broadband Antenna	Schwarzbeck	SB AC VULB	9168-670	Nov. 13, 2024	1 year
RF Cable	EMC	EMC102-N-N-6000	TE06-H-1	Feb. 05, 2025	1 year
RF Cable	EMC	EMC102-N-N-7000	TE06-H-2	Feb. 05, 2025	1 year
RF Cable	EMC	EMC102-N-N-3000	TE06-H-3	Feb. 05, 2025	1 year
RF Cable	EMC	EMC102-N-N-1000	TE06-H-4	Feb. 05, 2025	1 year
RF Cable	EMC	EMC102-N-N-7000	TE06-V-2	Feb. 05, 2025	1 year
RF Cable	EMC	EMC102-N-N-3000	TE06-V-3	Feb. 05, 2025	1 year
RF Cable	EMC	EMC102-N-N-1000	TE06-V-4	Feb. 05, 2025	1 year
RF Cable	EMC	EMC104-N-N-6000	TE06-V-5	Feb. 05, 2025	1 year
Software	EZ EMC	1.1.4.2	----	----	----
Test Site(NSA)	Eurofins	10M-BD	10M-BD	Oct. 07, 2024	1 year

Note: N.C.R. = No Calibration Request.

Test Period: Feb. 26, 2025

Testing Engineer: Jacky Wu

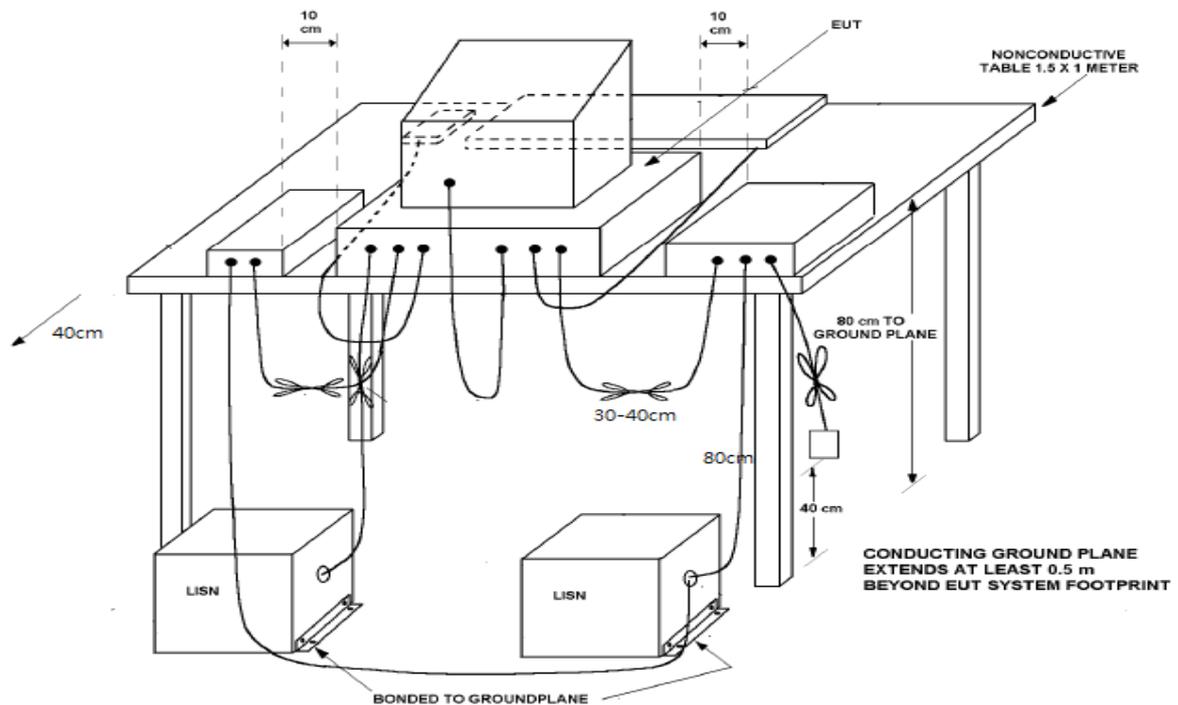
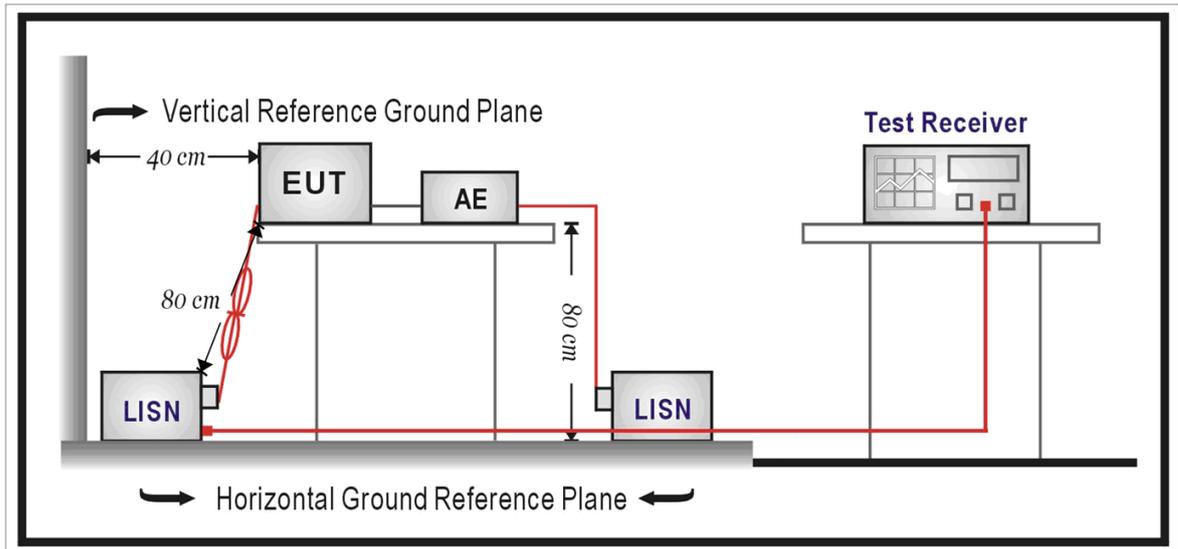
Radiated Emission - 3 Meter Chamber					
Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period
Receiver	R & S	ESR26	101752	Jun. 12, 2024	1 year
Amplifier (1-26.5 GHz)	Agilent	8449B	3008A02456	Mar. 21, 2024	1 year
Double Ridged Horn Antenna (1-18 GHz)	ETS	3117	00128055	Sep. 16, 2024	1 year
Microwave Cable	EMCI	EMC104-SM-SM-1500	140303	Feb. 05, 2025	1 year
Microwave Cable	EMCI	EMC104-SM-SM-13000	150503	Feb. 05, 2025	1 year
Spectrum Analyzer	Agilent	E4446A	MY46180578	Oct. 01, 2024	1 year
Horn Antenna (18-40 GHz)	SCHWARZBECK MESS-ELEKTRONIK	9170	9170-320	Jul. 22, 2024	1 year
Preamplifier (26.5-40 GHz)	EMCI	EMC184055SE	980613	Jan. 15, 2025	1 year
Software	EZ EMC	1.1.4.4	-----	-----	-----
Test Site(VSWR)	Eurofins	96602-BD	96602-BD	Apr. 08, 2024	1 year

Note: N.C.R. = No Calibration Request.

4 Measurement Procedure

4.1. Conducted Emission

■ Test Setup



■ Test Procedure

The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a $50 \Omega // 50 \mu\text{H}$ coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a $50 \Omega // 50 \mu\text{H}$ coupling impedance with 50 ohm termination.

Tabletop device shall be placed on a non-conducting platform, of nominal size 1 m by 1.5 m, raised 80 cm above the reference ground plane. The wall of screened room shall be located 40 cm to the rear of the EUT. Other surfaces of tabletop or floor standing EUT shall be at least 80 cm from any other ground conducting surface including one or more LISNs. For floor-standing device shall be placed under the EUT with a 12 mm insulating material.

Conducted emissions were investigated over the frequency range from 0.15 MHz to 30 MHz using a resolution bandwidth of 9 kHz. The equipment under test (EUT) shall be meet the limits in section 4.1.1, as applicable, including the average limit and the quasi-peak limit when using respectively, an average detector and quasi-peak detector measured in accordance with the methods described of related standard. When all of peak value were complied with quasi-peak and average limit from 150 kHz to 30 MHz then quasi-peak and average measurement was unnecessary.

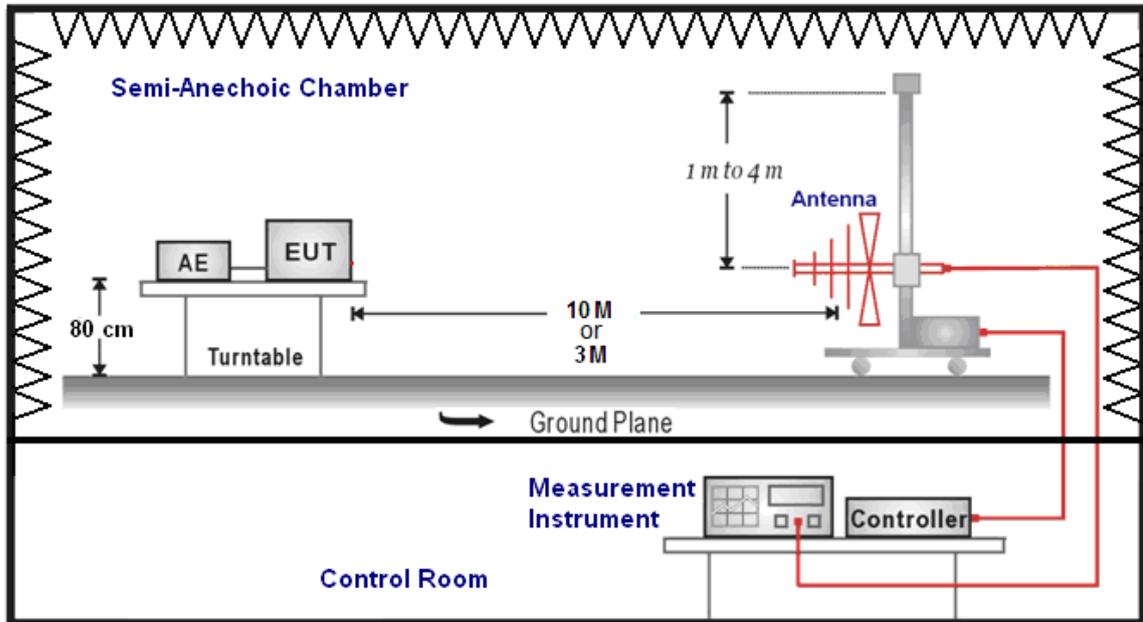
The AMN shall be placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for AMNs mounted on top of the ground reference plane. This distance is between the closest points of the AMN and the EUT. All other units of the EUT and associated equipment shall be at least 0.8 m from the AMN. If the mains power cable is longer than 1 m then the cable shall be folded back and forth at the centre of the lead to form a bundle no longer than 0.4 m. All of interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 cm to 40 cm long. All of EUT and AE shall be separate place more than 0.1 m. All 50 Ω ports of the LISN shall be resistively terminated into 50 Ω loads when not connected to the measuring instrument.

If the reading of the measuring receiver shows fluctuations close to the limit, the reading shall be observed for at least 15 s at each measurement frequency; the higher reading shall be recorded with the exception of any brief isolated high reading which shall be ignored.

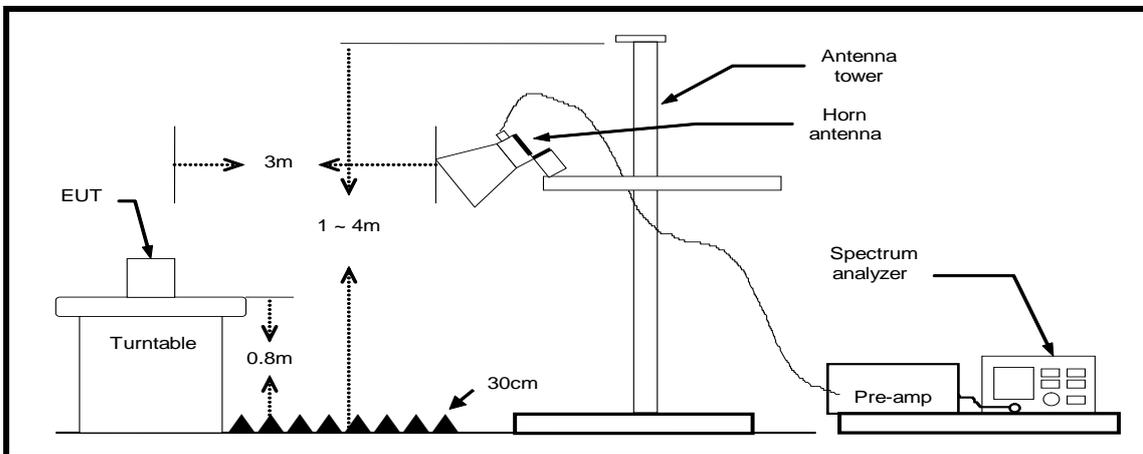
4.2. Radiated Emission

■ Test Setup

Below 1 GHz



Above 1 GHz



■ Test Procedure

Below 1 GHz

The EUT and its simulators are placed on a turn table which is 0.8 meter above ground. When the EUT is floor-standing equipment, it is placed on the ground plane which has a 12 mm non-conductive covering to insulate the EUT from the ground plane.

The turn table is 0.8 m height and 2.0 m wide x 1.0 m deep size. It can rotate 360 degrees to determine the position of the maximum emission level. The spacing between the each equipment was 10 cm. The mains cables are dropped to floor and are round to receptacle. Interconnecting cables of table top equipment that hang closer than 0.4m to the ground plane are folded back and forth forming a bundle 0.3 m to 0.4 m long, hanging approximately in the middle between ground plane and table. The EUT was positioned such that the distance from antenna to the EUT was 10 or 3 meters and the receive antenna was moved from 1 m to 4 m to investigate maximum highest emission at least 6 points over the frequency range from 30 MHz to 1 GHz using a resolution bandwidth of 120 kHz and measured by the quasi-peak detector.

According to this standard paragraph 15.109, as an alternative to the radiated emission limits, digital devices may be shown to comply with the standards contained in Third Edition of the International Special Committee on Radio Interference (CISPR), Pub. 22, "Information Technology Equipment - Radio Disturbance Characteristics - Limits and Methods of Measurement".

The Quasi-Peak instrument is used for the detection. The method of measuring the quasi-peak is as follows:

1. The height of the antenna is fixed at the maximum value. Rotate the turntable and find the angle of the turntable where the EUT produces the maximum value.
2. Fixed at the angle of the turntable with the maximum value, and then lifting antenna to look for the antenna height where the EUT emission could reach the maximum value.
3. If the maximum value does not change, record the maximum field strength, antenna height and turntable angle.
4. If the maximum value rises, fixed antenna height and rotated the turn-table to find the angle of the turntable where the EUT produces the maximum value.
5. Obtain the maximum interference value at each frequency band with the same operation.

Above 1 GHz

The Setup is same as Below 1 GHz placement. The turn table is 0.8 m height and 1.8m wide x 1.0m deep size.

The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meter for above 1 GHz, the highest frequency performed according to internal source frequency of the EUT, the specification was below:

Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 1.705	30
1.705 - 108	1000
108 - 500	2000
500 - 1000	5000
Above 1000	5th harmonic of the highest frequency or 40 GHz, whichever is lower

Absorber shall be spread between floor of a turn table and a receive antenna shown in 4.2.3. The antenna used boresight antenna master from 1 meter and 4 meters to find out the maximum emission level and find the highest emission at least 6 points. 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 on radiated measurement.

Radiated emissions were applied to above 1 GHz using a resolution bandwidth of 1 MHz and measured by the peak and average detector which antenna to the EUT distance was 3 meters. If the EUT was meet both limits and measurement with the average detector receiver is unnecessary.

The method of measuring the average is as follows:

1. Antenna is fixed at a height of 1 M, and the turntable rotates to find the maximum angle.
2. Fixed at the angle of the turntable with the maximum value, and then lifting antenna to look for the antenna height where the EUT emission could reach the maximum value.
3. If the maximum value does not change, record the maximum field strength, antenna height and turntable angle.
4. If the maximum value rises, fixed antenna height and rotated the turn-table to find the angle of the turntable where the EUT produces the maximum value.
5. Measurement the average value, adjust the VBW to 10 Hz and record the value.

5 Requirements and Performance Criteria

5.1. Conducted Emission

■ Limit

A.C. Main conducted interference Limit

Frequency (MHz)	Class A (dBuV)		Class B (dBuV)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 - 0.5	79	66	66 - 56	56 - 46
0.50 - 5.0	73	60	56	46
5.0 - 30.0	73	60	60	50

Note: (1) The lower limit shall apply at the transition frequencies.

(2) The limit decreases in line with the logarithm of the frequency in the range 0.15 to 0.50 MHz.

5.2. Radiated Emission

■ Limit

Under 1 GHz test shall not exceed following value

FCC 47 CFR PART 15 SUBPART B								
Frequency range (MHz)	Class A				Class B			
	Distance (m)	dBuV/m						
30 to 88	10	39	3	49.5	10	29.5	3	40
88 to 216	10	43.5	3	54	10	33.1	3	43.5
216 to 960	10	46.4	3	56.9	10	35.6	3	46
Above 960	10	49.5	3	60	10	43.5	3	54

CISPR 22				
Frequency range (MHz)	Class A		Class B	
	Distance (m)	dBuV/m	Distance (m)	dBuV/m
30 to 230	10	40	10	30
230 to 1000	10	47	10	37

Above 1 GHz test shall not exceed following value

Frequency (MHz)	dBuV/m (Distance 3m)			
	Class A		Class B	
	Average	Peak	Average	Peak
1000 ~ 40000	60	80	54	74

- Remark:
1. The tighter limit shall apply at the edge between two frequency bands.
 2. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
 3. RF Voltage (dBuV/m) = 20 log RF Voltage (uV/m)
 4. Peak detector limit is corresponding to 20 dB above the maximum permitted average limit.

According to FCC Part 15.33 (b), for an unintentional radiator, including a digital device, the spectrum shall be investigated from the lowest radio frequency signal generated or used in the device, without going below the lowest frequency for which a radiated emission limit is specified, up to the frequency shown in the following table:

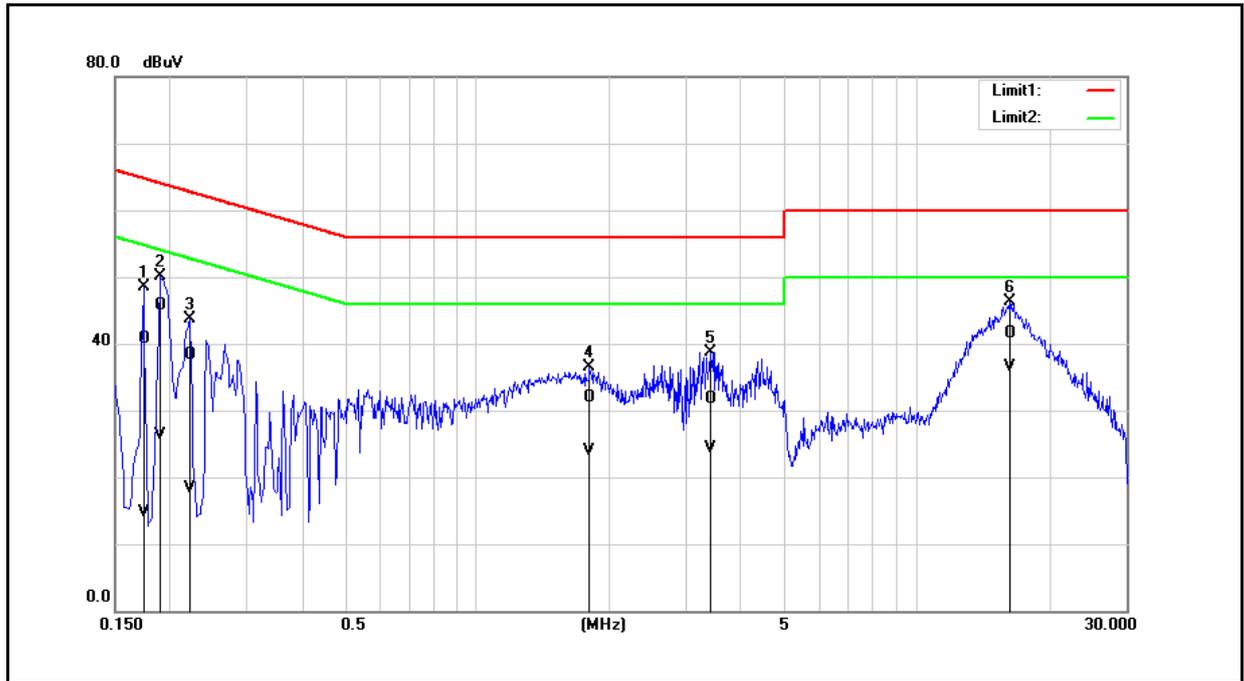
Highest frequency generated or used in the device or in which the device operated or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 1.705	30
1.705-108	1000
108-500	2000
500-1000	5000
Above 1000	5th harmonic of the highest frequency or 40 GHz, whichever is lower

6 Test Result

6.1. Conducted Emission

■ Test Result

Test Standard:	FCC Part 15B	Power Line:	L1
Test Mode:	Mode 2	Test Power:	AC 120 V / 60 Hz
Description:			

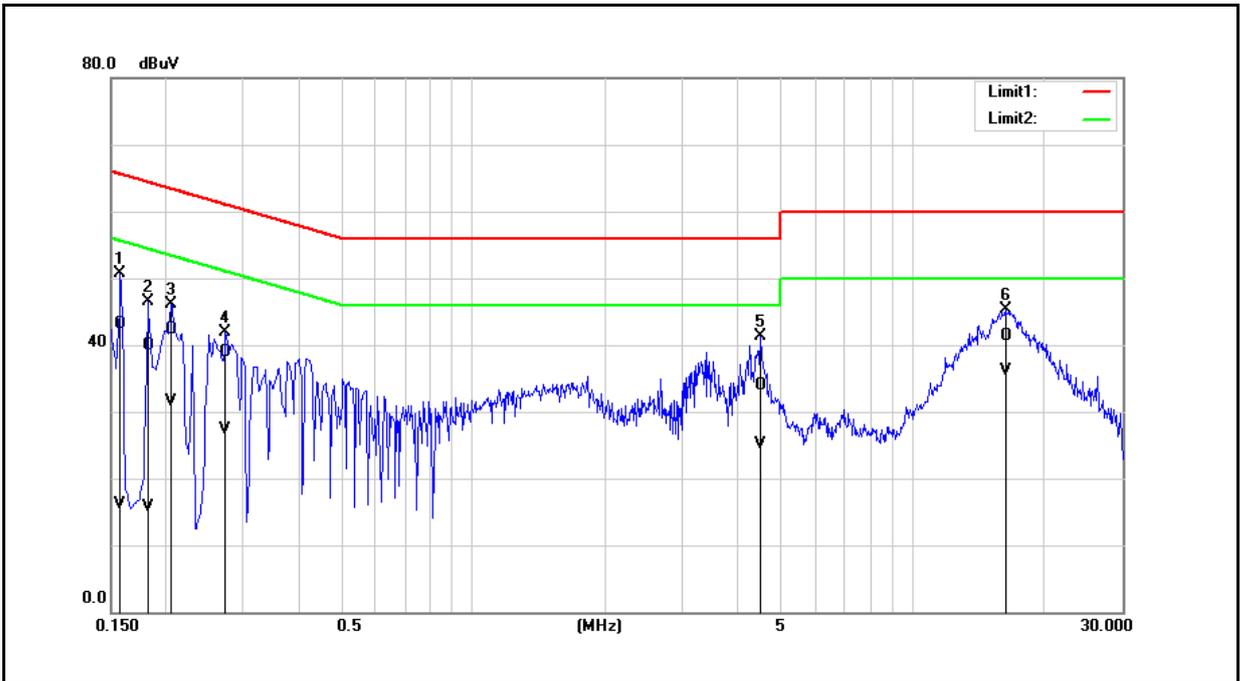


No.	Frequency (MHz)	QP reading (dBuV)	AVG reading (dBuV)	Correction factor (dB)	QP result (dBuV)	AVG result (dBuV)	QP limit (dBuV)	AVG limit (dBuV)	QP margin (dB)	AVG margin (dB)	Remark
1	0.1740	31.15	5.15	9.63	40.78	14.78	64.77	54.77	-23.99	-39.99	Pass
2	0.1900	36.00	16.73	9.62	45.62	26.35	64.04	54.04	-18.42	-27.69	Pass
3	0.2220	28.71	8.62	9.62	38.33	18.24	62.74	52.74	-24.41	-34.50	Pass
4	1.8060	22.18	14.27	9.70	31.88	23.97	56.00	46.00	-24.12	-22.03	Pass
5	3.4020	21.97	14.50	9.74	31.71	24.24	56.00	46.00	-24.29	-21.76	Pass
6	16.3540	31.60	26.57	9.98	41.58	36.55	60.00	50.00	-18.42	-13.45	Pass

Note: 1. Result (dBuV) = Correction factor (dB) + Reading(dBuV).

2. Correction factor (dB) = Cable loss (dB) + L.I.S.N. factor (dB).

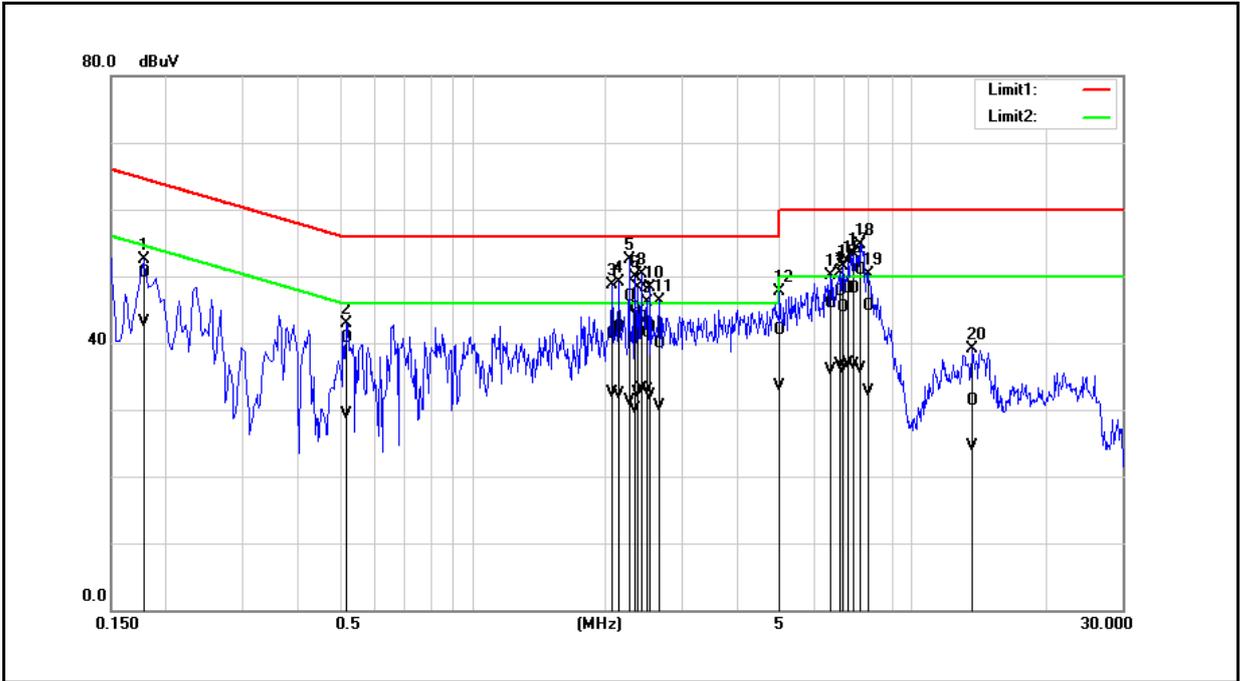
Test Standard:	FCC Part 15B	Power Line:	N
Test Mode:	Mode 2	Test Power:	AC 120 V / 60 Hz
Description:			



No.	Frequency (MHz)	QP reading (dBuV)	AVG reading (dBuV)	Correction factor (dB)	QP result (dBuV)	AVG result (dBuV)	QP limit (dBuV)	AVG limit (dBuV)	QP margin (dB)	AVG margin (dB)	Remark
1	0.1580	33.55	6.49	9.62	43.17	16.11	65.57	55.57	-22.40	-39.46	Pass
2	0.1820	30.23	6.05	9.62	39.85	15.67	64.39	54.39	-24.54	-38.72	Pass
3	0.2060	32.66	21.85	9.62	42.28	31.47	63.37	53.37	-21.09	-21.90	Pass
4	0.2740	29.25	17.63	9.62	38.87	27.25	61.00	51.00	-22.13	-23.75	Pass
5	4.5180	24.19	15.23	9.78	33.97	25.01	56.00	46.00	-22.03	-20.99	Pass
6	16.2460	31.16	26.14	10.05	41.21	36.19	60.00	50.00	-18.79	-13.81	Pass

Note: 1. Result (dBuV) = Correction factor (dB) + Reading(dBuV).
2. Correction factor (dB) = Cable loss (dB) + L.I.S.N. factor (dB).

Test Standard:	FCC Part 15B	Power Line:	L1
Test Mode:	Mode 3	Test Power:	AC 120 V / 60 Hz
Description:			



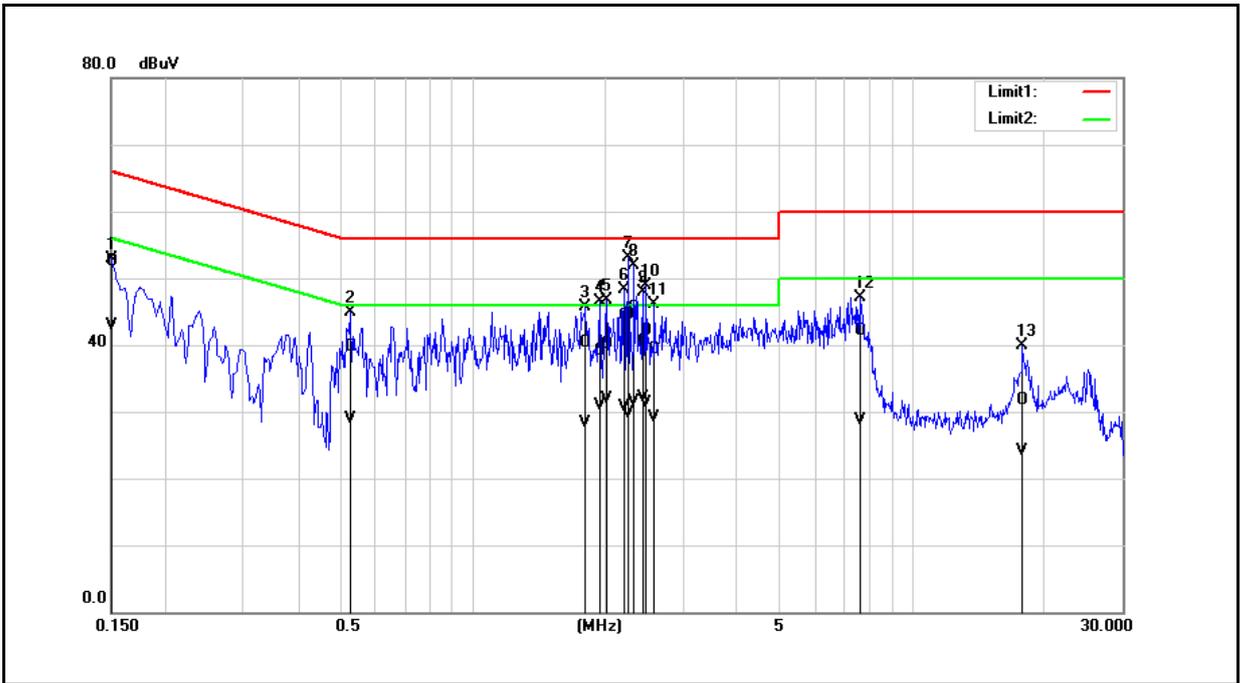
Test Standard:	FCC Part 15B	Power Line:	L1
Test Mode:	Mode 3	Test Power:	AC 120 V / 60 Hz
Description:			

No.	Frequency (MHz)	QP reading (dBuV)	AVG reading (dBuV)	Correction factor (dB)	QP result (dBuV)	AVG result (dBuV)	QP limit (dBuV)	AVG limit (dBuV)	QP margin (dB)	AVG margin (dB)	Remark
1	0.1780	40.85	33.54	9.62	50.47	43.16	64.58	54.58	-14.11	-11.42	Pass
2	0.5180	31.04	19.68	9.64	40.68	29.32	56.00	46.00	-15.32	-16.68	Pass
3	2.0700	31.50	22.86	9.71	41.21	32.57	56.00	46.00	-14.79	-13.43	Pass
4	2.1460	32.69	22.55	9.71	42.40	32.26	56.00	46.00	-13.60	-13.74	Pass
5	2.2660	37.23	21.57	9.71	46.94	31.28	56.00	46.00	-9.06	-14.72	Pass
6	2.3380	35.36	20.35	9.72	45.08	30.07	56.00	46.00	-10.92	-15.93	Pass
7	2.3820	34.33	22.73	9.72	44.05	32.45	56.00	46.00	-11.95	-13.55	Pass
8	2.4180	33.98	23.29	9.72	43.70	33.01	56.00	46.00	-12.30	-12.99	Pass
9	2.4900	31.78	23.27	9.72	41.50	32.99	56.00	46.00	-14.50	-13.01	Pass
10	2.5340	32.57	22.35	9.73	42.30	32.08	56.00	46.00	-13.70	-13.92	Pass
11	2.6500	30.19	20.78	9.73	39.92	30.51	56.00	46.00	-16.08	-15.49	Pass
12	4.9820	32.17	23.70	9.79	41.96	33.49	56.00	46.00	-14.04	-12.51	Pass
13	6.4940	36.13	26.01	9.82	45.95	35.83	60.00	50.00	-14.05	-14.17	Pass
14	6.8340	37.97	26.80	9.82	47.79	36.62	60.00	50.00	-12.21	-13.38	Pass
15	6.9260	35.48	26.35	9.82	45.30	36.17	60.00	50.00	-14.70	-13.83	Pass
16	7.1740	38.37	27.01	9.83	48.20	36.84	60.00	50.00	-11.80	-13.16	Pass
17	7.3460	38.34	26.96	9.83	48.17	36.79	60.00	50.00	-11.83	-13.21	Pass
18	7.5900	41.04	26.24	9.83	50.87	36.07	60.00	50.00	-9.13	-13.93	Pass
19	7.9340	35.56	22.91	9.85	45.41	32.76	60.00	50.00	-14.59	-17.24	Pass
20	13.6780	21.36	14.62	9.94	31.30	24.56	60.00	50.00	-28.70	-25.44	Pass

Note: 1. Result (dBuV) = Correction factor (dB) + Reading(dBuV).

2. Correction factor (dB) = Cable loss (dB) + L.I.S.N. factor (dB).

Test Standard:	FCC Part 15B	Power Line:	N
Test Mode:	Mode 3	Test Power:	AC 120 V / 60 Hz
Description:			



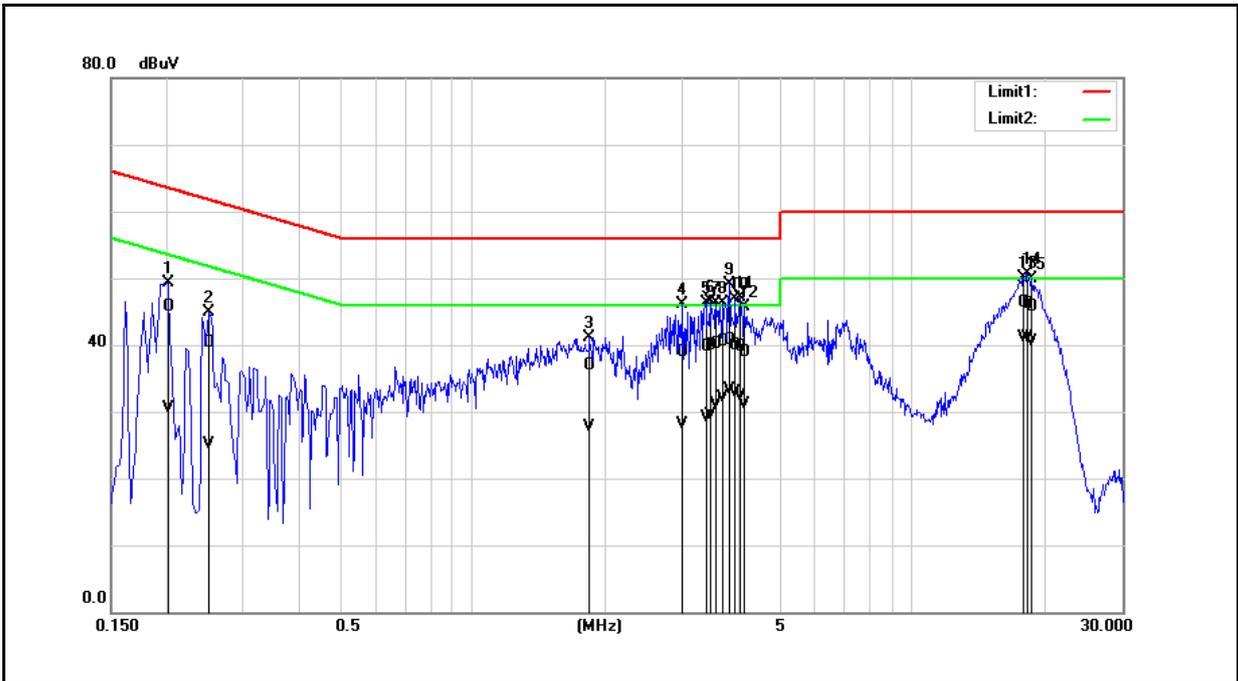
Test Standard:	FCC Part 15B	Power Line:	N
Test Mode:	Mode 3	Test Power:	AC 120 V / 60 Hz
Description:			

No.	Frequency (MHz)	QP reading (dBuV)	AVG reading (dBuV)	Correction factor (dB)	QP result (dBuV)	AVG result (dBuV)	QP limit (dBuV)	AVG limit (dBuV)	QP margin (dB)	AVG margin (dB)	Remark
1	0.1500	42.92	33.27	9.61	52.53	42.88	66.00	56.00	-13.47	-13.12	Pass
2	0.5260	30.13	19.22	9.64	39.77	28.86	56.00	46.00	-16.23	-17.14	Pass
3	1.8020	30.55	18.63	9.70	40.25	28.33	56.00	46.00	-15.75	-17.67	Pass
4	1.9420	29.46	21.14	9.71	39.17	30.85	56.00	46.00	-16.83	-15.15	Pass
5	2.0180	30.42	22.17	9.71	40.13	31.88	56.00	46.00	-15.87	-14.12	Pass
6	2.2060	34.57	20.92	9.71	44.28	30.63	56.00	46.00	-11.72	-15.37	Pass
7	2.2500	34.70	20.08	9.71	44.41	29.79	56.00	46.00	-11.59	-16.21	Pass
8	2.3220	35.72	21.73	9.72	45.44	31.45	56.00	46.00	-10.56	-14.55	Pass
9	2.4380	30.78	22.47	9.72	40.50	32.19	56.00	46.00	-15.50	-13.81	Pass
10	2.4780	32.47	21.55	9.72	42.19	31.27	56.00	46.00	-13.81	-14.73	Pass
11	2.5900	29.49	19.37	9.73	39.22	29.10	56.00	46.00	-16.78	-16.90	Pass
12	7.5780	32.18	18.90	9.85	42.03	28.75	60.00	50.00	-17.97	-21.25	Pass
13	17.7620	21.65	14.03	10.08	31.73	24.11	60.00	50.00	-28.27	-25.89	Pass

Note:1. Result (dBuV) = Correction factor (dB) + Reading(dBuV).

2. Correction factor (dB) = Cable loss (dB) + L.I.S.N. factor (dB).

Test Standard:	FCC Part 15B	Power Line:	L1
Test Mode:	Mode 4	Test Power:	AC 120 V / 60 Hz
Description:			



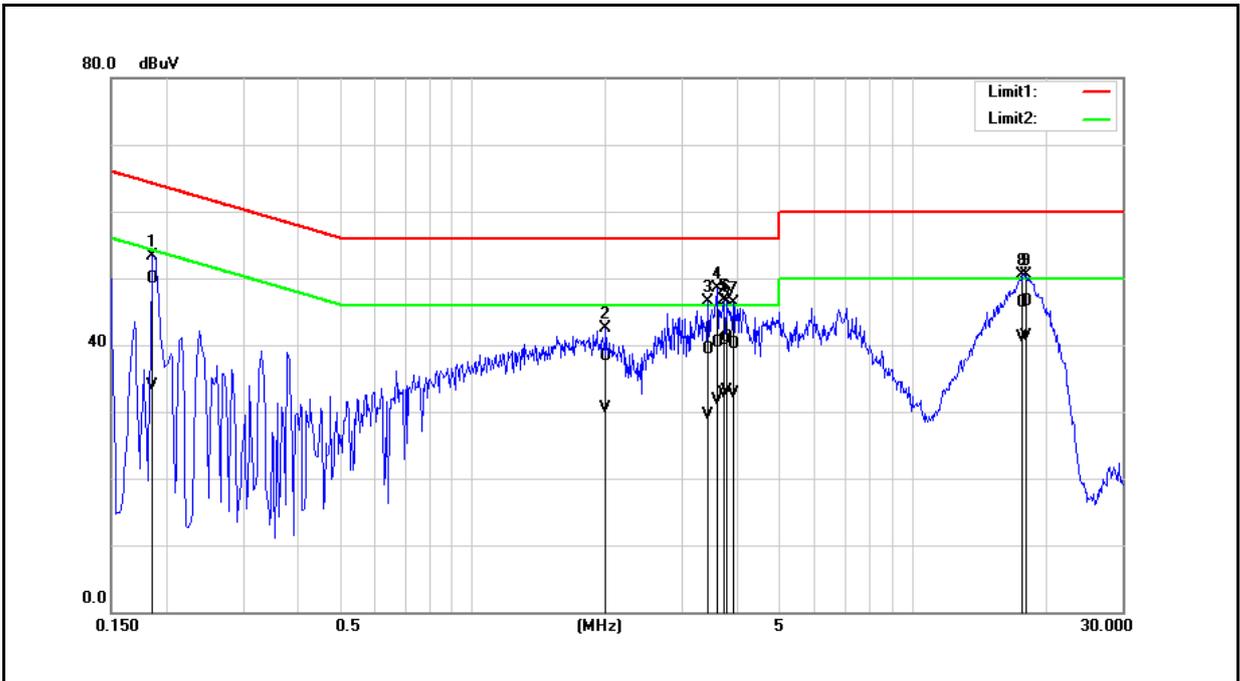
Test Standard:	FCC Part 15B	Power Line:	L1
Test Mode:	Mode 4	Test Power:	AC 120 V / 60 Hz
Description:			

No.	Frequency (MHz)	QP reading (dBuV)	AVG reading (dBuV)	Correction factor (dB)	QP result (dBuV)	AVG result (dBuV)	QP limit (dBuV)	AVG limit (dBuV)	QP margin (dB)	AVG margin (dB)	Remark
1	0.2020	35.99	20.82	9.62	45.61	30.44	63.53	53.53	-17.92	-23.09	Pass
2	0.2500	30.63	15.53	9.62	40.25	25.15	61.76	51.76	-21.51	-26.61	Pass
3	1.8420	27.18	18.10	9.70	36.88	27.80	56.00	46.00	-19.12	-18.20	Pass
4	3.0020	29.25	18.43	9.74	38.99	28.17	56.00	46.00	-17.01	-17.83	Pass
5	3.3900	30.06	19.28	9.74	39.80	29.02	56.00	46.00	-16.20	-16.98	Pass
6	3.4660	30.21	19.82	9.74	39.95	29.56	56.00	46.00	-16.05	-16.44	Pass
7	3.5780	30.43	21.29	9.76	40.19	31.05	56.00	46.00	-15.81	-14.95	Pass
8	3.6940	30.77	22.36	9.76	40.53	32.12	56.00	46.00	-15.47	-13.88	Pass
9	3.8380	30.94	23.46	9.76	40.70	33.22	56.00	46.00	-15.30	-12.78	Pass
10	3.9540	30.21	23.08	9.76	39.97	32.84	56.00	46.00	-16.03	-13.16	Pass
11	4.0660	29.95	22.60	9.76	39.71	32.36	56.00	46.00	-16.29	-13.64	Pass
12	4.1540	29.04	21.41	9.77	38.81	31.18	56.00	46.00	-17.19	-14.82	Pass
13	17.9300	36.22	31.14	10.00	46.22	41.14	60.00	50.00	-13.78	-8.86	Pass
14	18.3260	36.13	31.08	10.00	46.13	41.08	60.00	50.00	-13.87	-8.92	Pass
15	18.6420	35.65	30.54	10.00	45.65	40.54	60.00	50.00	-14.35	-9.46	Pass

Note: 1. Result (dBuV) = Correction factor (dB) + Reading(dBuV).

2. Correction factor (dB) = Cable loss (dB) + L.I.S.N. factor (dB).

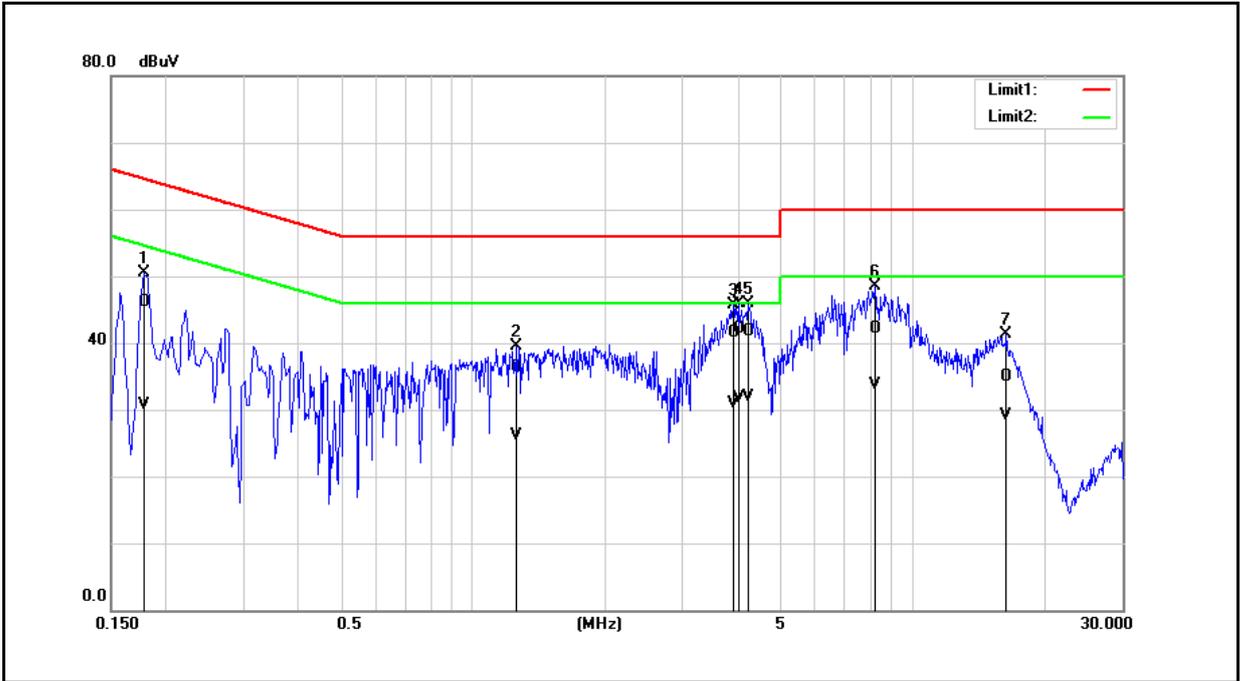
Test Standard:	FCC Part 15B	Power Line:	N
Test Mode:	Mode 4	Test Power:	AC 120 V / 60 Hz
Description:			



No.	Frequency (MHz)	QP reading (dBuV)	AVG reading (dBuV)	Correction factor (dB)	QP result (dBuV)	AVG result (dBuV)	QP limit (dBuV)	AVG limit (dBuV)	QP margin (dB)	AVG margin (dB)	Remark
1	0.1860	40.30	24.35	9.62	49.92	33.97	64.21	54.21	-14.29	-20.24	Pass
2	2.0020	28.55	20.78	9.71	38.26	30.49	56.00	46.00	-17.74	-15.51	Pass
3	3.4180	29.66	19.81	9.74	39.40	29.55	56.00	46.00	-16.60	-16.45	Pass
4	3.5900	30.64	22.04	9.76	40.40	31.80	56.00	46.00	-15.60	-14.20	Pass
5	3.7300	31.01	23.00	9.76	40.77	32.76	56.00	46.00	-15.23	-13.24	Pass
6	3.7980	31.30	23.30	9.76	41.06	33.06	56.00	46.00	-14.94	-12.94	Pass
7	3.9140	30.29	23.03	9.76	40.05	32.79	56.00	46.00	-15.95	-13.21	Pass
8	17.7940	36.22	31.10	10.08	46.30	41.18	60.00	50.00	-13.70	-8.82	Pass
9	18.2180	36.37	31.23	10.09	46.46	41.32	60.00	50.00	-13.54	-8.68	Pass

Note: 1. Result (dBuV) = Correction factor (dB) + Reading(dBuV).
2. Correction factor (dB) = Cable loss (dB) + L.I.S.N. factor (dB).

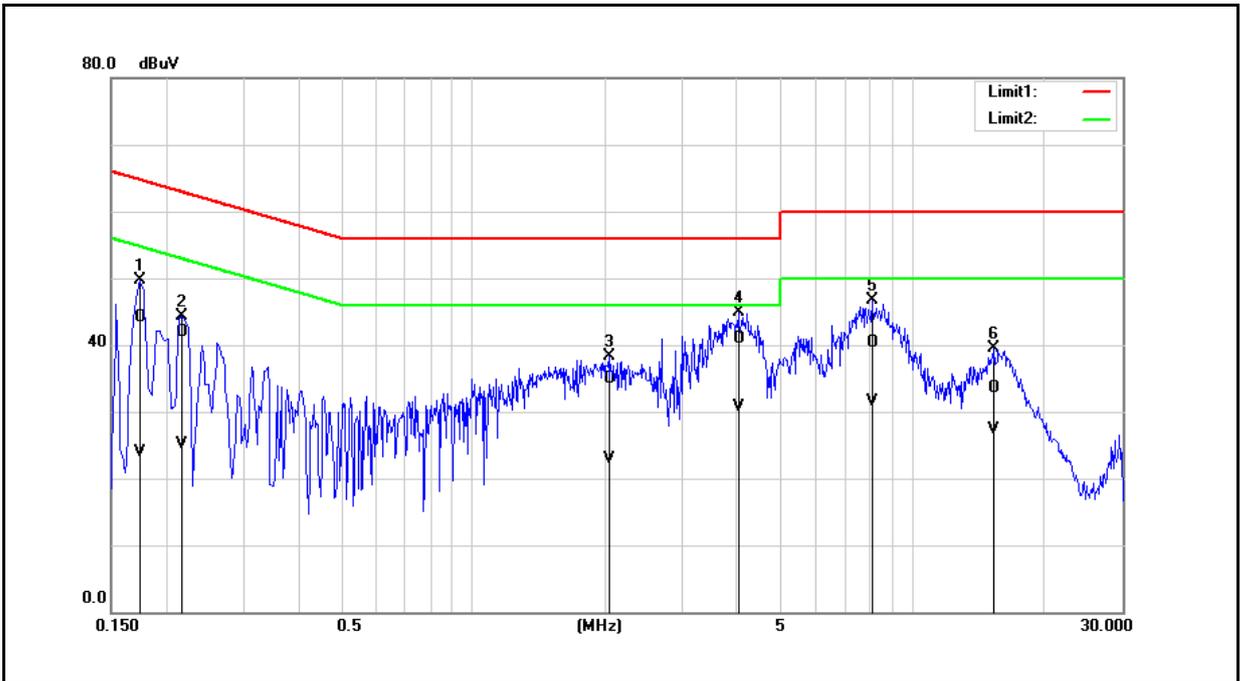
Test Standard:	FCC Part 15B	Power Line:	L1
Test Mode:	Mode 5	Test Power:	AC 120 V / 60 Hz
Description:			



No.	Frequency (MHz)	QP reading (dBuV)	AVG reading (dBuV)	Correction factor (dB)	QP result (dBuV)	AVG result (dBuV)	QP limit (dBuV)	AVG limit (dBuV)	QP margin (dB)	AVG margin (dB)	Remark
1	0.1780	36.50	21.07	9.62	46.12	30.69	64.58	54.58	-18.46	-23.89	Pass
2	1.2620	26.53	16.51	9.68	36.21	26.19	56.00	46.00	-19.79	-19.81	Pass
3	3.9060	31.84	21.20	9.76	41.60	30.96	56.00	46.00	-14.40	-15.04	Pass
4	4.0180	32.36	22.04	9.76	42.12	31.80	56.00	46.00	-13.88	-14.20	Pass
5	4.2340	31.90	22.09	9.77	41.67	31.86	56.00	46.00	-14.33	-14.14	Pass
6	8.2020	32.34	23.76	9.85	42.19	33.61	60.00	50.00	-17.81	-16.39	Pass
7	16.3780	24.84	19.05	9.98	34.82	29.03	60.00	50.00	-25.18	-20.97	Pass

Note: 1. Result (dBuV) = Correction factor (dB) + Reading(dBuV).
 2. Correction factor (dB) = Cable loss (dB) + L.I.S.N. factor (dB).

Test Standard:	FCC Part 15B	Power Line:	N
Test Mode:	Mode 5	Test Power:	AC 120 V / 60 Hz
Description:			



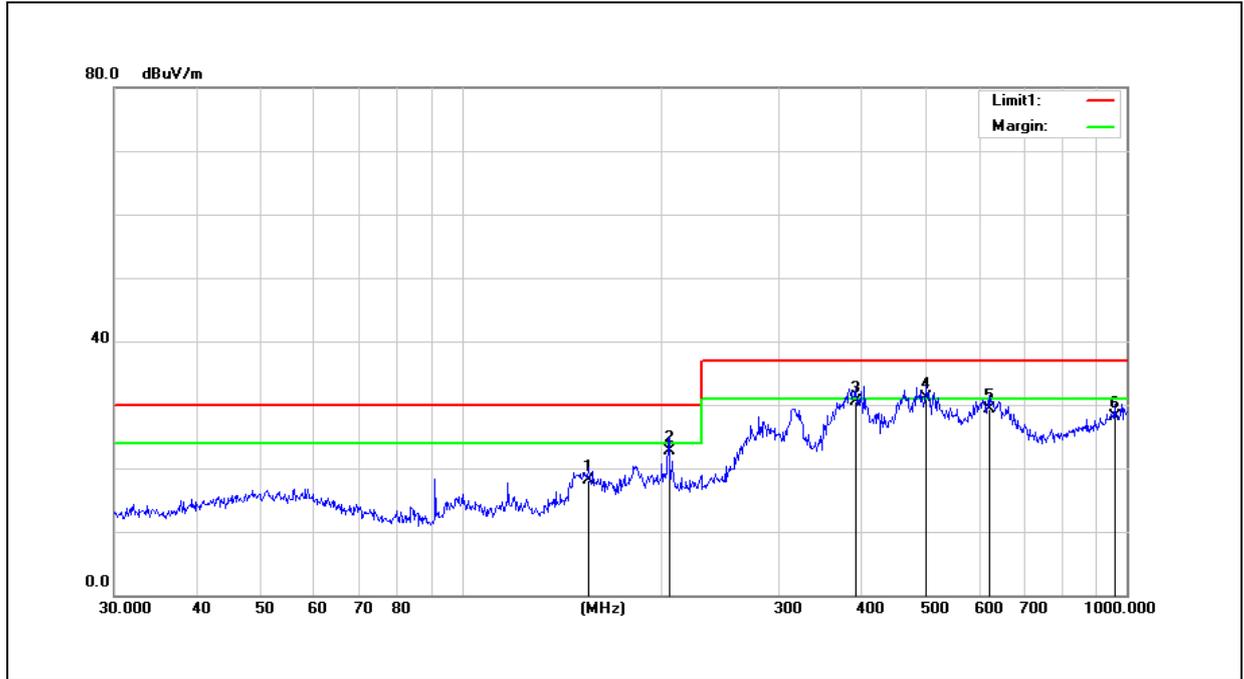
No.	Frequency (MHz)	QP reading (dBuV)	AVG reading (dBuV)	Correction factor (dB)	QP result (dBuV)	AVG result (dBuV)	QP limit (dBuV)	AVG limit (dBuV)	QP margin (dB)	AVG margin (dB)	Remark
1	0.1740	34.54	14.19	9.62	44.16	23.81	64.77	54.77	-20.61	-30.96	Pass
2	0.2180	32.32	15.41	9.62	41.94	25.03	62.89	52.89	-20.95	-27.86	Pass
3	2.0420	25.20	13.24	9.71	34.91	22.95	56.00	46.00	-21.09	-23.05	Pass
4	4.0220	31.24	20.88	9.76	41.00	30.64	56.00	46.00	-15.00	-15.36	Pass
5	8.0820	30.38	21.73	9.87	40.25	31.60	60.00	50.00	-19.75	-18.40	Pass
6	15.3780	23.53	17.21	10.03	33.56	27.24	60.00	50.00	-26.44	-22.76	Pass

Note: 1. Result (dBuV) = Correction factor (dB) + Reading (dBuV).
2. Correction factor (dB) = Cable loss (dB) + L.I.S.N. factor (dB).

6.2. Radiated Emission

■ Test Result

Test Standard:	FCC Part 15B (limit use CISPR 22)	Test Distance:	10 m
Test Mode:	Mode 2	Test Power:	AC 120 V / 60 Hz
Measurement Range:	30 MHz~1 GHz	Ant.Polar.:	Horizontal

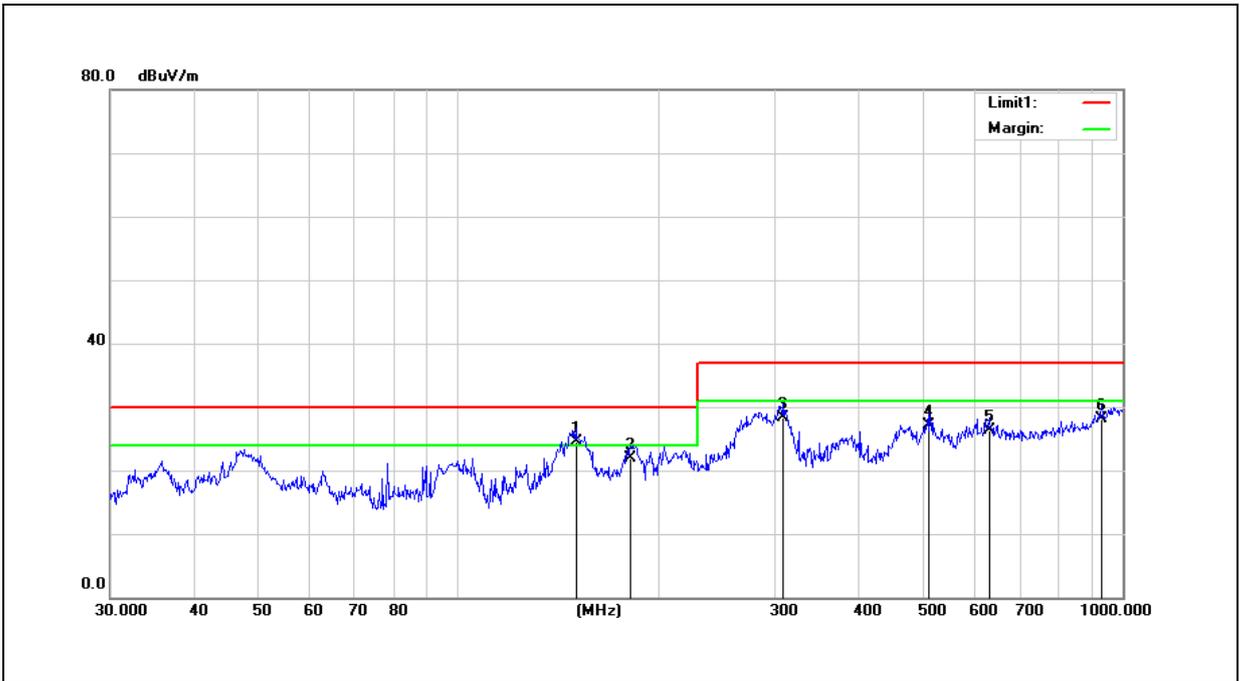


No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	155.3644	33.63	-15.53	18.10	30.00	-11.90	400	94	QP
2	204.9551	41.51	-18.71	22.80	30.00	-7.20	400	115	QP
3	392.0951	42.95	-12.35	30.60	37.00	-6.40	200	24	QP
4	499.4247	41.24	-10.14	31.10	37.00	-5.90	167	360	QP
5	620.7096	37.17	-7.77	29.40	37.00	-7.60	144	360	QP
6	958.7943	30.49	-2.39	28.10	37.00	-8.90	200	215	QP

Note:1. Result (dBuV/m) = Correction factor (dB/m) + Reading(dBuV).

2. Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

Test Standard:	FCC Part 15B (limit use CISPR 22)	Test Distance:	10 m
Test Mode:	Mode 2	Test Power:	AC 120 V / 60 Hz
Measurement Range:	30 MHz~1 GHz	Ant.Polar.:	Vertical

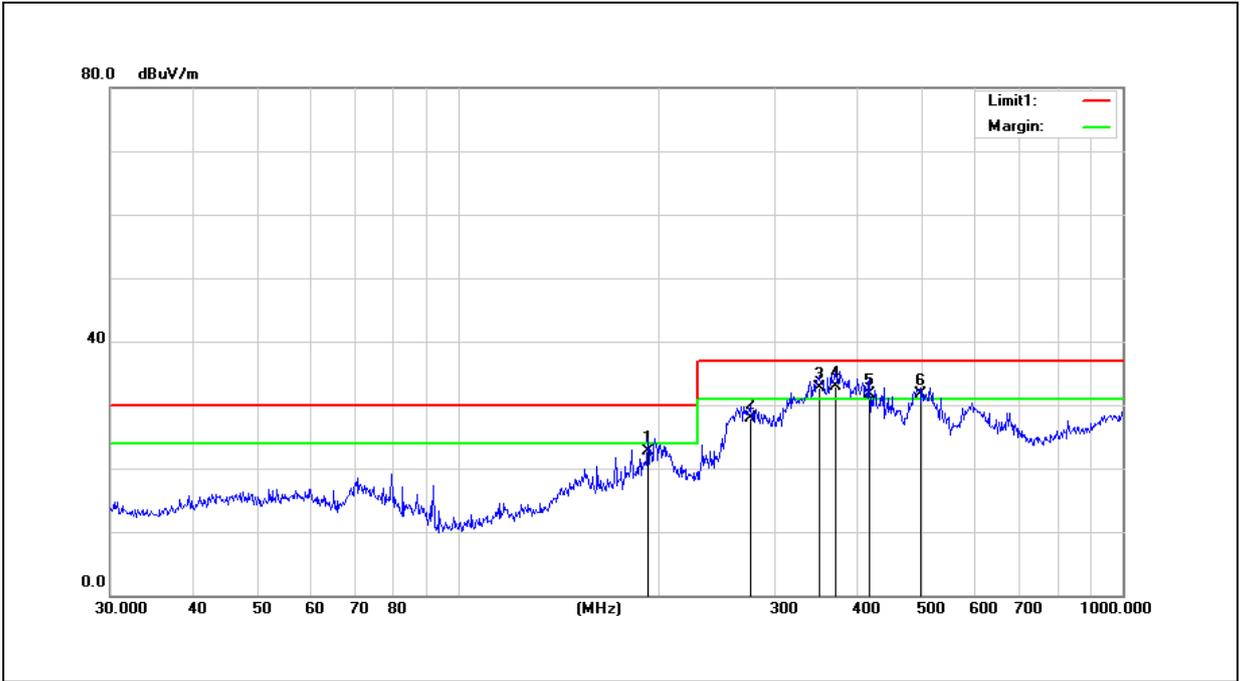


No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	150.5378	38.93	-14.33	24.60	30.00	-5.40	100	191	QP
2	181.9202	37.86	-15.96	21.90	30.00	-8.10	100	211	QP
3	308.9126	40.85	-12.45	28.40	37.00	-8.60	100	360	QP
4	510.0436	34.09	-6.99	27.10	37.00	-9.90	299	189	QP
5	629.4772	31.52	-5.22	26.30	37.00	-10.70	299	205	QP
6	929.0082	27.97	0.23	28.20	37.00	-8.80	299	138	QP

Note: 1. Result (dBuV/m) = Correction factor (dB/m) + Reading(dBuV).

2. Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

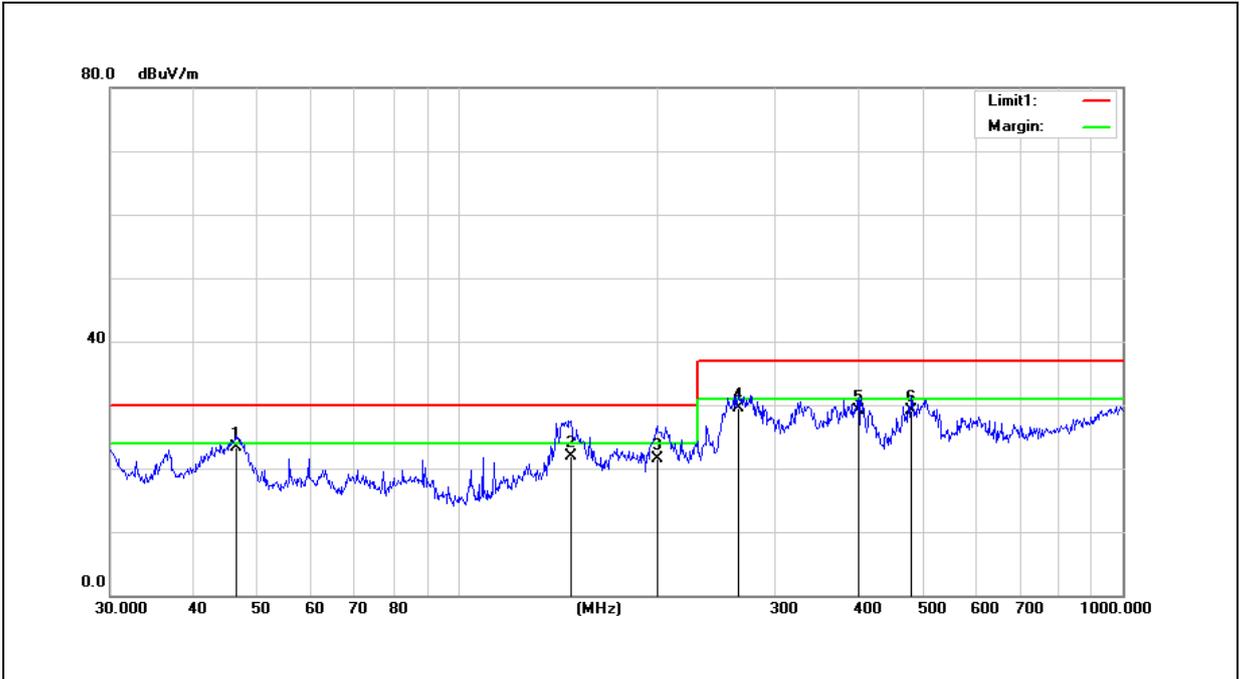
Test Standard:	FCC Part 15B (limit use CISPR 22)	Test Distance:	10 m
Test Mode:	Mode 3	Test Power:	AC 120 V / 60 Hz
Measurement Range:	30 MHz~1 GHz	Ant.Polar.:	Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	193.0945	41.26	-18.56	22.70	30.00	-7.30	400	114	QP
2	276.1235	43.55	-15.55	28.00	37.00	-9.00	400	213	QP
3	349.2500	46.45	-13.65	32.80	37.00	-4.20	200	214	QP
4	369.4047	46.00	-13.10	32.90	37.00	-4.10	200	203	QP
5	416.1791	43.51	-11.81	31.70	37.00	-5.30	200	252	QP
6	495.9344	41.86	-10.16	31.70	37.00	-5.30	200	355	QP

Note: 1. Result (dBuV/m) = Correction factor (dB/m) + Reading(dBuV).
2. Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

Test Standard:	FCC Part 15B (limit use CISPR 22)	Test Distance:	10 m
Test Mode:	Mode 3	Test Power:	AC 120 V / 60 Hz
Measurement Range:	30 MHz~1 GHz	Ant.Polar.:	Vertical

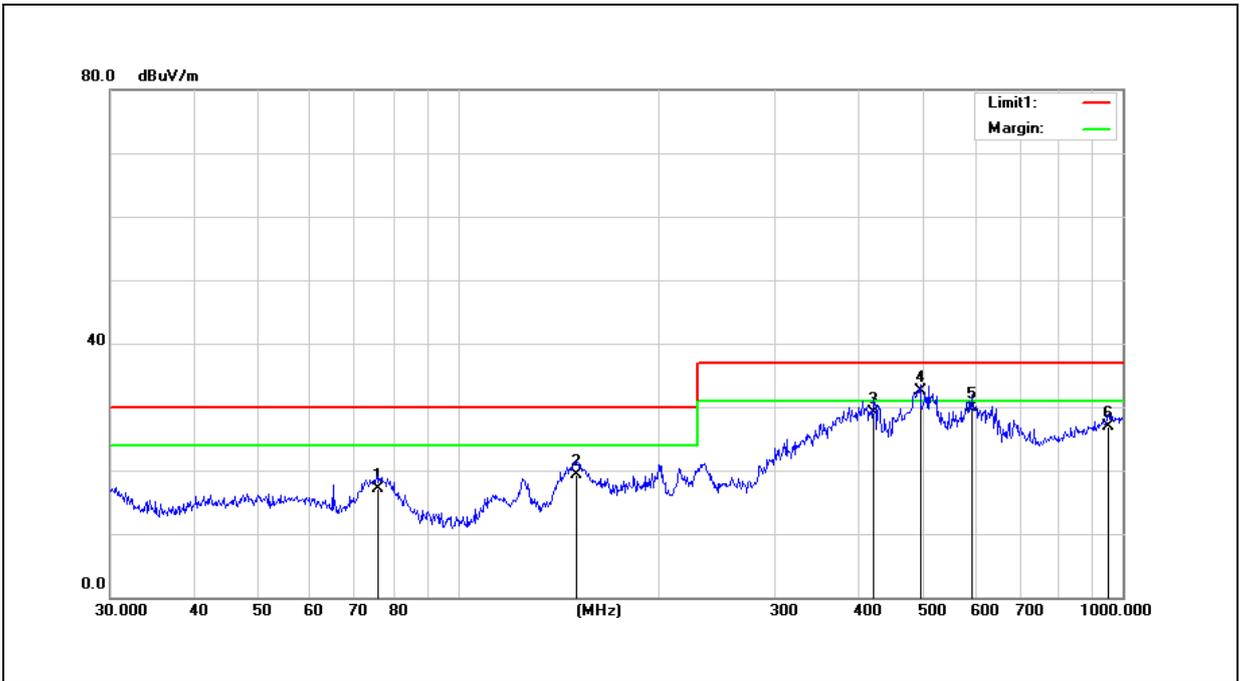


No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	46.5030	39.01	-15.71	23.30	30.00	-6.70	100	317	QP
2	147.9214	36.55	-14.55	22.00	30.00	-8.00	100	240	QP
3	199.2855	38.47	-16.97	21.50	30.00	-8.50	199	138	QP
4	263.8190	43.90	-14.30	29.60	37.00	-7.40	100	164	QP
5	400.4320	39.11	-10.01	29.10	37.00	-7.90	100	137	QP
6	480.5276	36.95	-7.75	29.20	37.00	-7.80	300	360	QP

Note: 1. Result (dBuV/m) = Correction factor (dB/m) + Reading(dBuV).

2. Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

Test Standard:	FCC Part 15B (limit use CISPR 22)	Test Distance:	10 m
Test Mode:	Mode 4	Test Power:	AC 120 V / 60 Hz
Measurement Range:	30 MHz~1 GHz	Ant.Polar.:	Horizontal

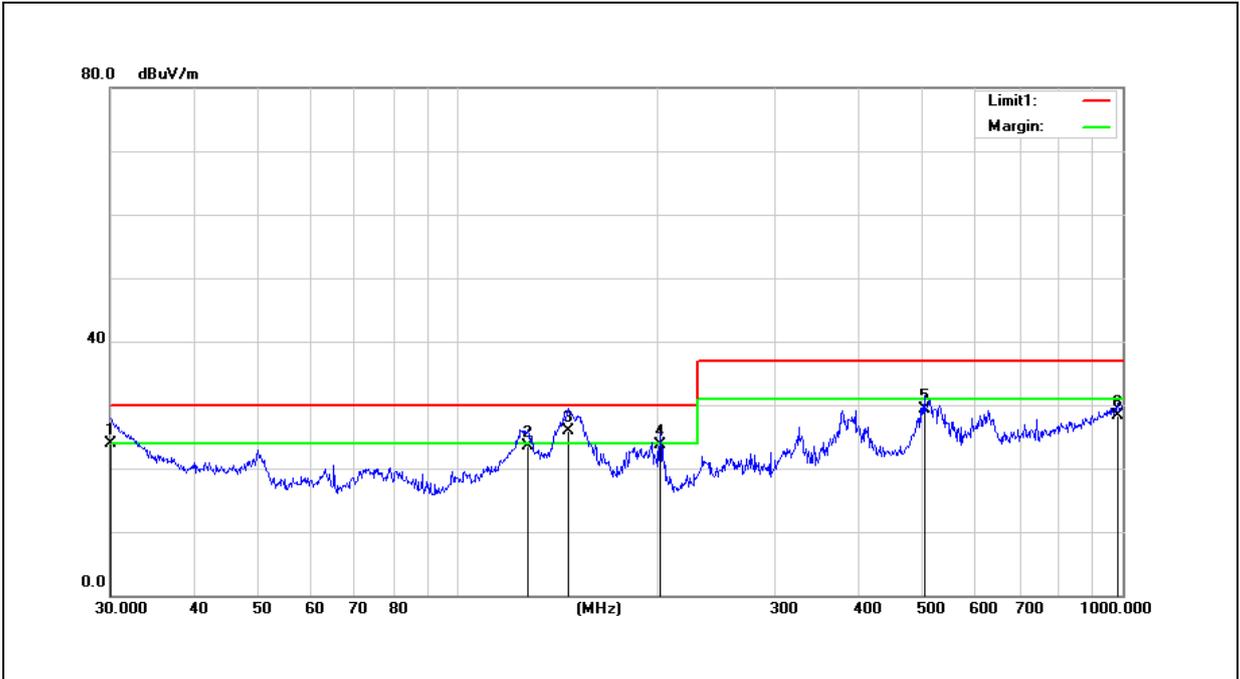


No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	75.9773	36.40	-19.30	17.10	30.00	-12.90	300	169	QP
2	151.0666	34.74	-15.34	19.40	30.00	-10.60	400	0	QP
3	422.0577	40.82	-11.62	29.20	37.00	-7.80	200	26	QP
4	495.9344	42.66	-10.16	32.50	37.00	-4.50	165	360	QP
5	593.0497	38.06	-8.16	29.90	37.00	-7.10	184	360	QP
6	952.0937	29.25	-2.35	26.90	37.00	-10.10	297	0	QP

Note: 1. Result (dBuV/m) = Correction factor (dB/m) + Reading(dBuV).

2. Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

Test Standard:	FCC Part 15B (limit use CISPR 22)	Test Distance:	10 m
Test Mode:	Mode 4	Test Power:	AC 120 V / 60 Hz
Measurement Range:	30 MHz~1 GHz	Ant.Polar.:	Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	30.0000	41.71	-17.71	24.00	30.00	-6.00	100	359	QP
2	127.6645	40.14	-16.64	23.50	30.00	-6.50	100	294	QP
3	146.3735	40.57	-14.67	25.90	30.00	-4.10	100	173	QP
4	201.3930	40.68	-16.98	23.70	30.00	-6.30	100	135	QP
5	502.9395	36.61	-7.21	29.40	37.00	-7.60	271	0	QP
6	982.6200	27.04	1.26	28.30	37.00	-8.70	299	208	QP

Note: 1. Result (dBuV/m) = Correction factor (dB/m) + Reading(dBuV).

2. Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

Test Standard:	FCC Part 15B (limit use CISPR 22)	Test Distance:	10 m
Test Mode:	Mode 5	Test Power:	AC 120 V / 60 Hz
Measurement Range:	30 MHz~1 GHz	Ant.Polar.:	Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	54.4516	29.73	-15.23	14.50	30.00	-15.50	100	256	QP
2	204.2377	40.80	-18.70	22.10	30.00	-7.90	400	292	QP
3	282.9852	43.63	-15.33	28.30	37.00	-8.70	400	169	QP
4	382.5880	41.98	-12.58	29.40	37.00	-7.60	200	26	QP
5	485.6093	41.69	-10.29	31.40	37.00	-5.60	199	360	QP
6	607.7867	36.74	-7.84	28.90	37.00	-8.10	155	360	QP

Note: 1. Result (dBuV/m) = Correction factor (dB/m) + Reading(dBuV).

2. Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

Test Standard:	FCC Part 15B (limit use CISPR 22)	Test Distance:	10 m
Test Mode:	Mode 5	Test Power:	AC 120 V / 60 Hz
Measurement Range:	30 MHz~1 GHz	Ant.Polar.:	Vertical

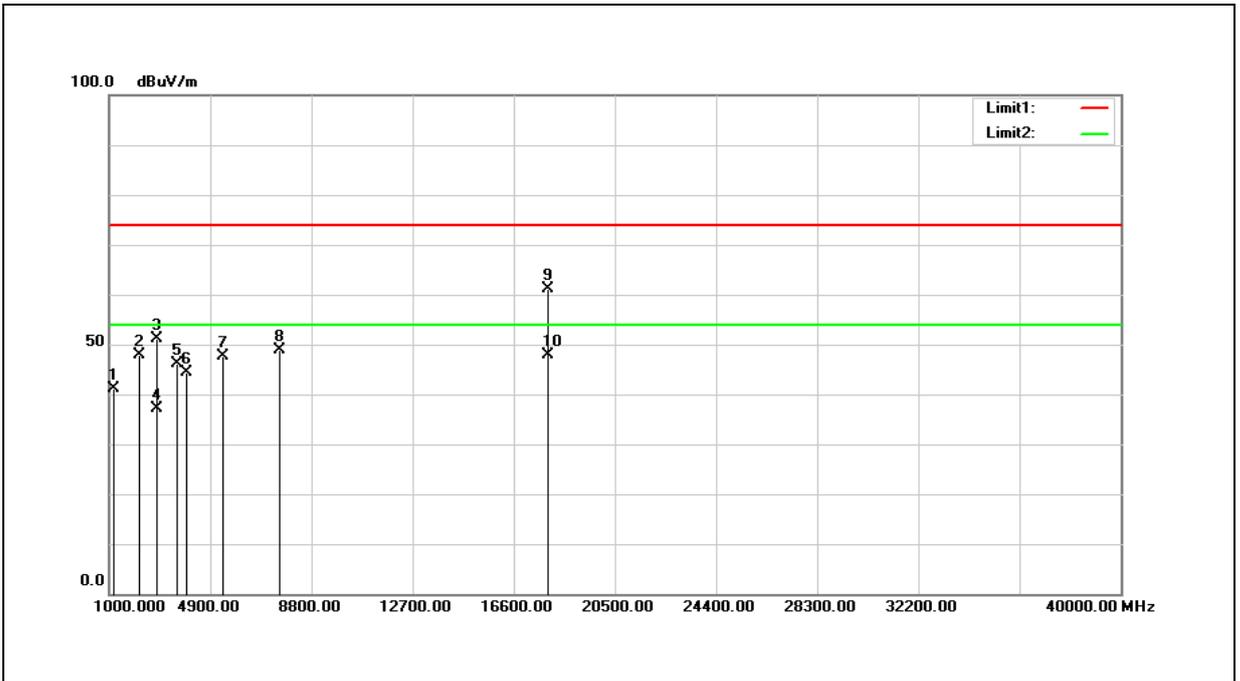


No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	30.0000	40.31	-17.71	22.60	30.00	-7.40	100	360	QP
2	155.3644	37.16	-14.46	22.70	30.00	-7.30	100	158	QP
3	277.0935	42.19	-13.59	28.60	37.00	-8.40	100	360	QP
4	393.4723	36.55	-10.05	26.50	37.00	-10.50	100	114	QP
5	531.9635	34.39	-6.79	27.60	37.00	-9.40	299	170	QP
6	989.5355	26.86	1.34	28.20	37.00	-8.80	199	0	QP

Note: 1. Result (dBuV/m) = Correction factor (dB/m) + Reading(dBuV).

2. Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

Test Standard:	FCC Part 15B	Test Distance:	3 m
Test Mode:	Mode 2	Test Power:	AC 120 V / 60 Hz
Measurement Range:	1 GHz~40 GHz	Ant.Polar.:	Horizontal

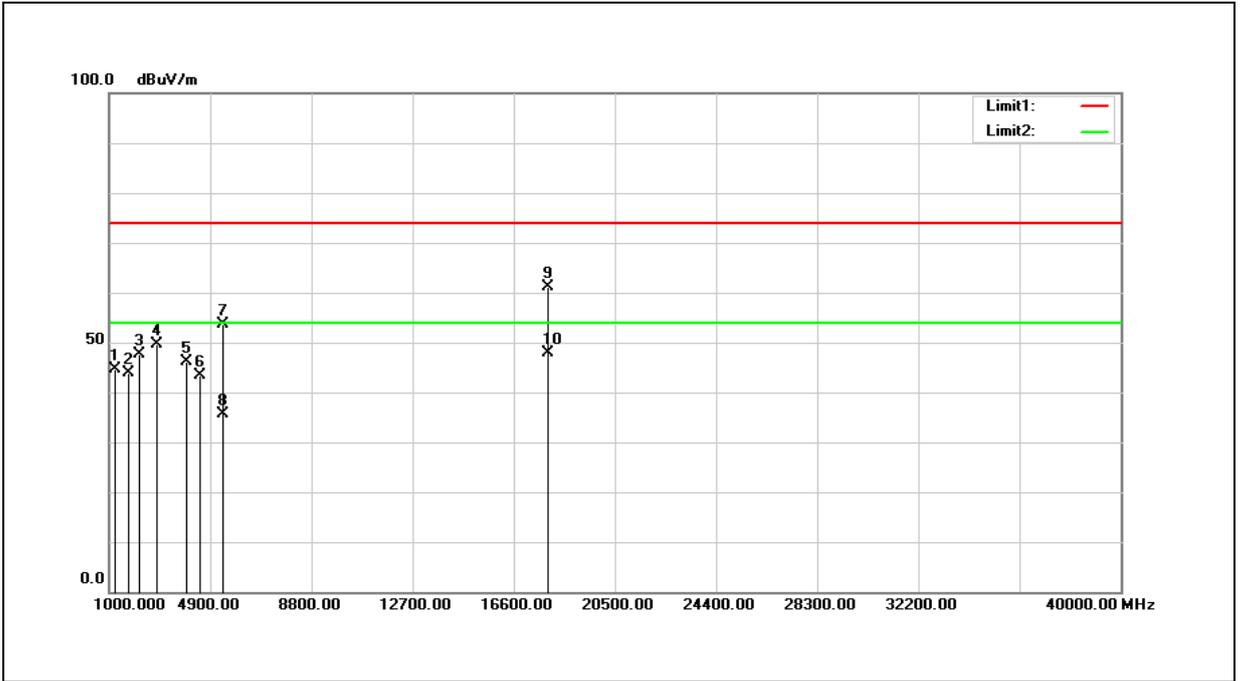


No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	1136.000	44.56	-3.35	41.21	74.00	-32.79	200	360	peak
2	2139.000	39.83	8.17	48.00	74.00	-26.00	100	225	peak
3	2802.000	39.78	11.42	51.20	74.00	-22.80	200	219	peak
4	2802.000	25.83	11.42	37.25	54.00	-16.75	200	219	AVG
5	3584.000	40.57	5.67	46.24	74.00	-27.76	100	67	peak
6	3992.000	37.92	6.46	44.38	74.00	-29.62	100	251	peak
7	5386.000	38.79	8.84	47.63	74.00	-26.37	200	61	peak
8	7528.000	37.65	11.17	48.82	74.00	-25.18	200	40	peak
9	17898.000	36.15	25.07	61.22	74.00	-12.78	200	235	peak
10	17898.000	22.71	25.07	47.78	54.00	-6.22	200	235	AVG

Note:1. Result (dBuV/m) = Correction factor (dB/m) + Reading(dBuV).

2. Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

Test Standard:	FCC Part 15B	Test Distance:	3 m
Test Mode:	Mode 2	Test Power:	AC 120 V / 60 Hz
Measurement Range:	1 GHz~40 GHz	Ant.Polar.:	Vertical

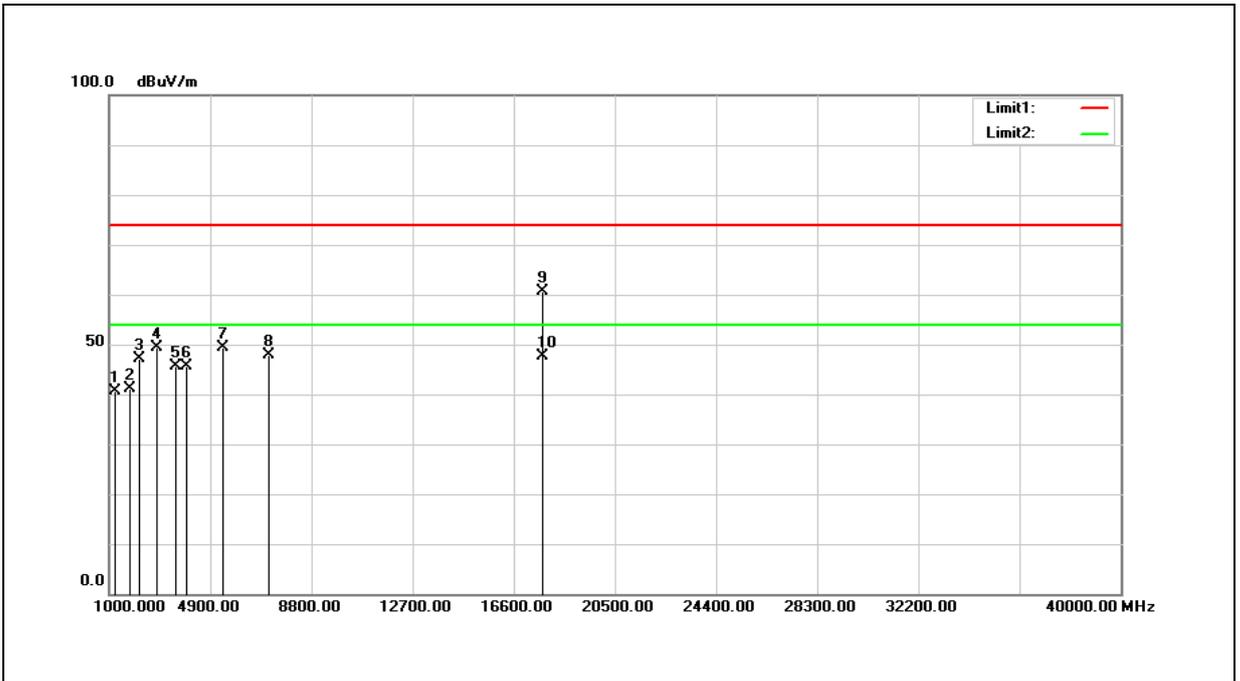


No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	1221.000	47.66	-2.95	44.71	74.00	-29.29	100	174	peak
2	1731.000	43.80	0.17	43.97	74.00	-30.03	105	360	peak
3	2139.000	39.57	8.17	47.74	74.00	-26.26	200	56	peak
4	2802.000	38.14	11.42	49.56	74.00	-24.44	200	159	peak
5	3975.000	39.75	6.45	46.20	74.00	-27.80	200	138	peak
6	4502.000	36.18	7.32	43.50	74.00	-30.50	200	281	peak
7	5403.000	44.79	8.87	53.66	74.00	-20.34	100	31	peak
8	5403.000	26.71	8.87	35.58	54.00	-18.42	100	31	AVG
9	17915.000	36.05	25.09	61.14	74.00	-12.86	100	97	peak
10	17915.000	22.80	25.09	47.89	54.00	-6.11	100	97	AVG

Note:1. Result (dBuV/m) = Correction factor (dB/m) + Reading(dBuV).

2. Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

Test Standard:	FCC Part 15B	Test Distance:	3 m
Test Mode:	Mode 3	Test Power:	AC 120 V / 60 Hz
Measurement Range:	1 GHz~40 GHz	Ant.Polar.:	Horizontal

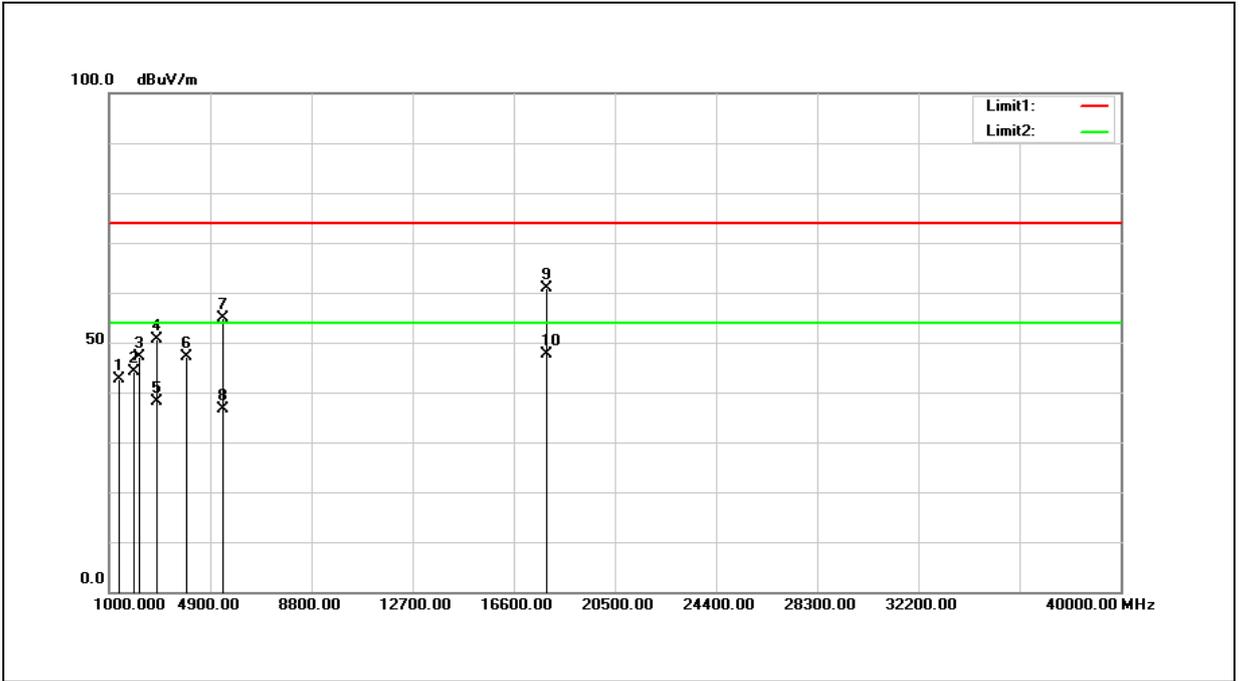


No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	1204.000	43.61	-3.03	40.58	74.00	-33.42	200	7	peak
2	1765.000	40.70	0.53	41.23	74.00	-32.77	100	140	peak
3	2139.000	38.88	8.17	47.05	74.00	-26.95	100	76	peak
4	2802.000	37.85	11.42	49.27	74.00	-24.73	200	80	peak
5	3550.000	40.13	5.59	45.72	74.00	-28.28	100	68	peak
6	3992.000	39.11	6.46	45.57	74.00	-28.43	100	357	peak
7	5403.000	40.45	8.87	49.32	74.00	-24.68	100	360	peak
8	7137.000	36.92	10.98	47.90	74.00	-26.10	200	40	peak
9	17711.000	35.80	24.79	60.59	74.00	-13.41	200	165	peak
10	17711.000	22.80	24.79	47.59	54.00	-6.41	200	165	AVG

Note:1. Result (dBuV/m) = Correction factor (dB/m) + Reading(dBuV).

2. Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

Test Standard:	FCC Part 15B	Test Distance:	3 m
Test Mode:	Mode 3	Test Power:	AC 120 V / 60 Hz
Measurement Range:	1 GHz~40 GHz	Ant.Polar.:	Vertical

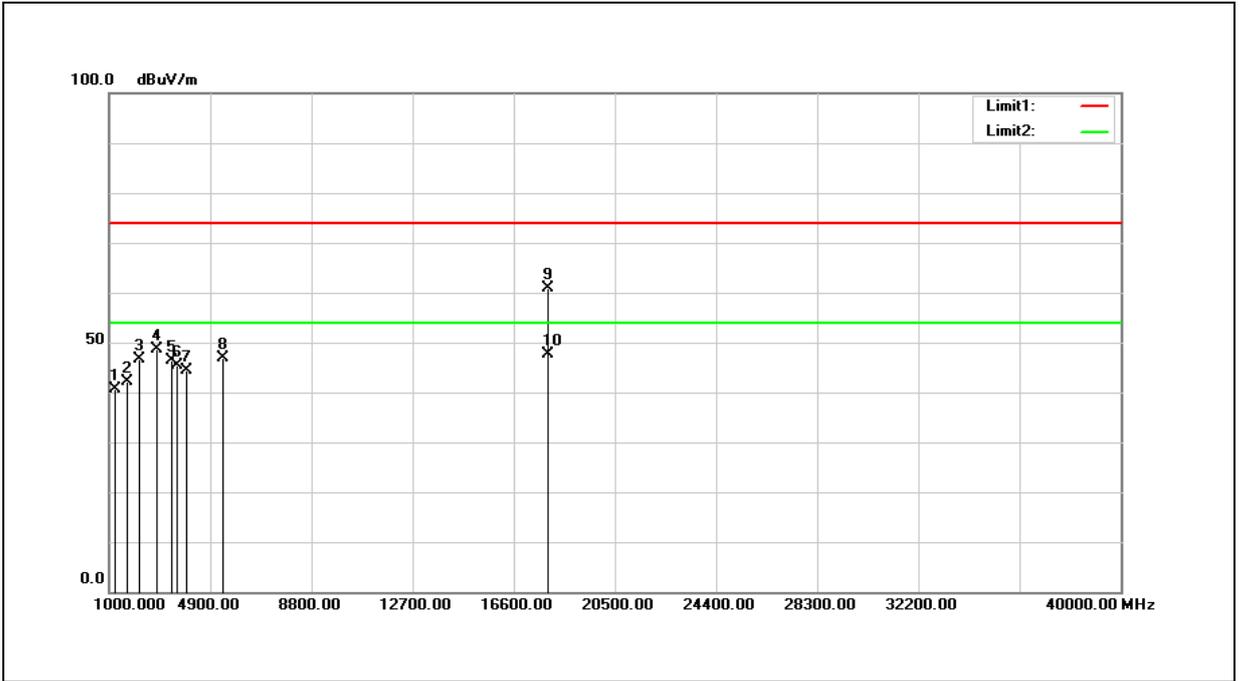


No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	1357.000	45.05	-2.46	42.59	74.00	-31.41	100	28	peak
2	1901.000	42.24	2.00	44.24	74.00	-29.76	100	32	peak
3	2139.000	39.06	8.17	47.23	74.00	-26.77	200	27	peak
4	2802.000	39.25	11.42	50.67	74.00	-23.33	158	360	peak
5	2802.000	26.78	11.42	38.20	54.00	-15.80	158	360	AVG
6	3992.000	40.63	6.46	47.09	74.00	-26.91	100	169	peak
7	5403.000	46.04	8.87	54.91	74.00	-19.09	100	360	peak
8	5403.000	27.72	8.87	36.59	54.00	-17.41	100	360	AVG
9	17881.000	35.75	25.05	60.80	74.00	-13.20	199	360	peak
10	17881.000	22.70	25.05	47.75	54.00	-6.25	199	360	AVG

Note:1. Result (dBuV/m) = Correction factor (dB/m) + Reading(dBuV).

2. Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

Test Standard:	FCC Part 15B	Test Distance:	3 m
Test Mode:	Mode 4	Test Power:	AC 120 V / 60 Hz
Measurement Range:	1 GHz~40 GHz	Ant.Polar.:	Horizontal

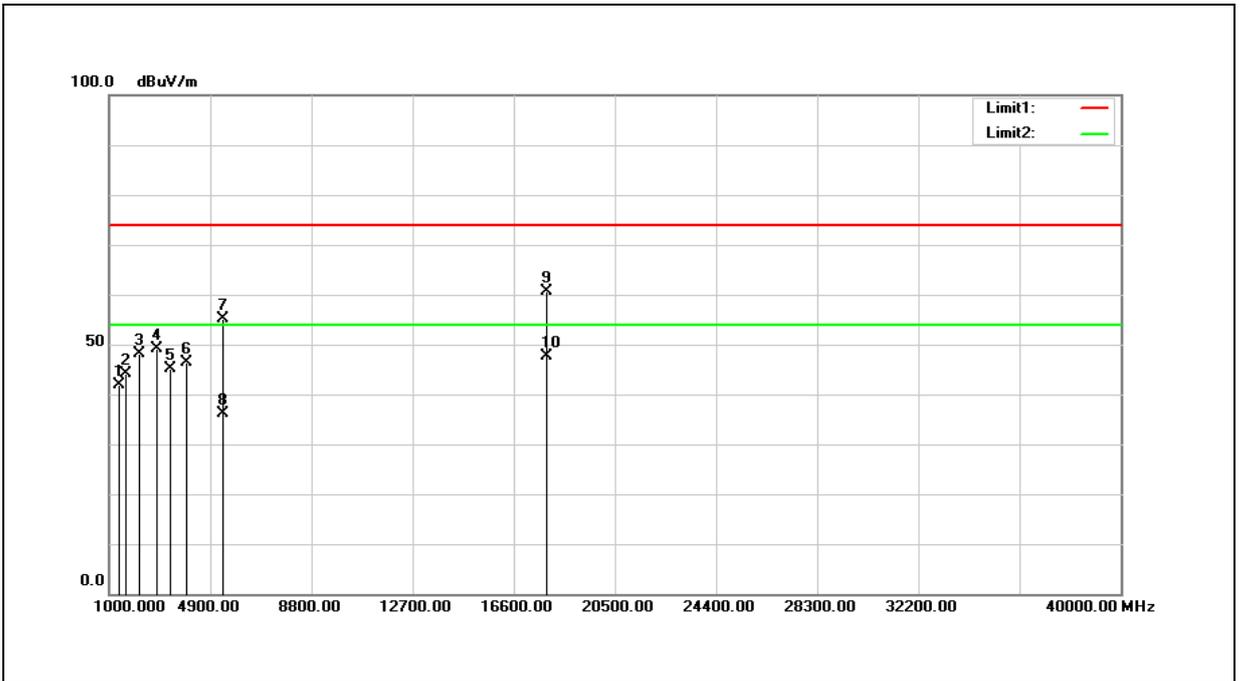


No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	1221.000	43.52	-2.95	40.57	74.00	-33.43	100	65	peak
2	1697.000	42.35	-0.14	42.21	74.00	-31.79	200	314	peak
3	2139.000	38.55	8.17	46.72	74.00	-27.28	170	360	peak
4	2802.000	37.18	11.42	48.60	74.00	-25.40	100	100	peak
5	3414.000	40.86	5.42	46.28	74.00	-27.72	100	65	peak
6	3584.000	39.65	5.67	45.32	74.00	-28.68	100	65	peak
7	3992.000	37.80	6.46	44.26	74.00	-29.74	200	346	peak
8	5386.000	37.96	8.84	46.80	74.00	-27.20	200	288	peak
9	17898.000	35.76	25.07	60.83	74.00	-13.17	100	229	peak
10	17898.000	22.48	25.07	47.55	54.00	-6.45	100	229	AVG

Note:1. Result (dBuV/m) = Correction factor (dB/m) + Reading(dBuV).

2. Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

Test Standard:	FCC Part 15B	Test Distance:	3 m
Test Mode:	Mode 4	Test Power:	AC 120 V / 60 Hz
Measurement Range:	1 GHz~40 GHz	Ant.Polar.:	Vertical

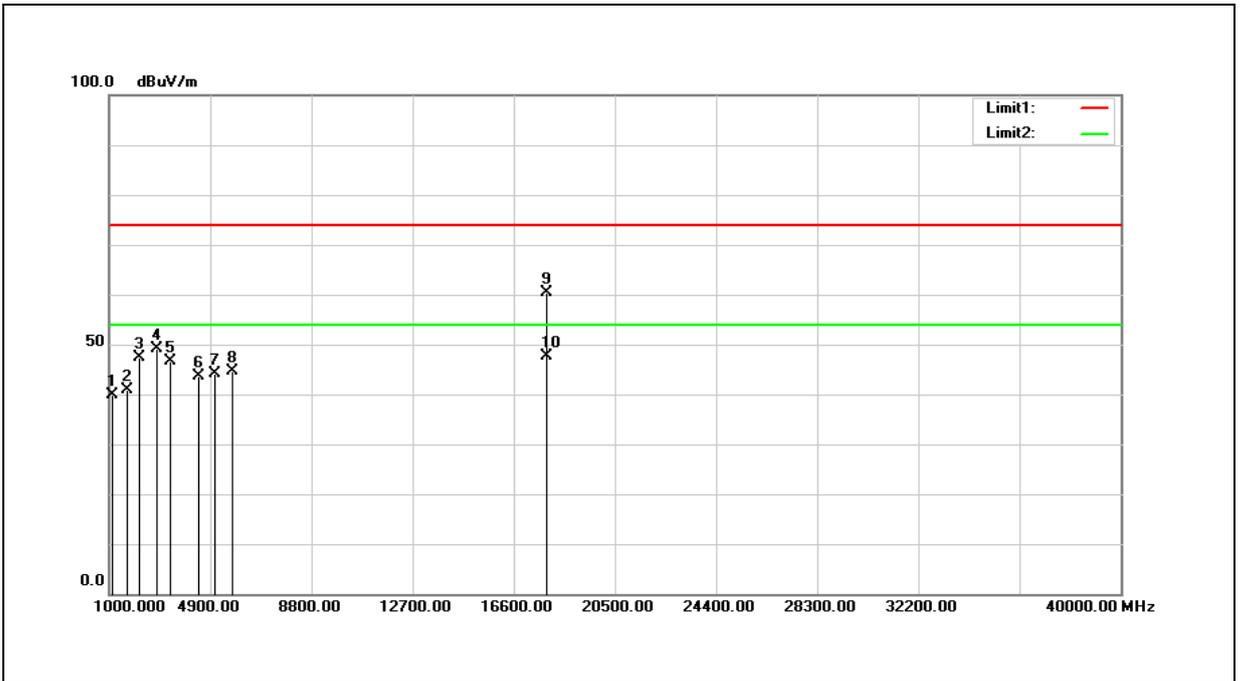


No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	1374.000	44.10	-2.32	41.78	74.00	-32.22	100	24	peak
2	1663.000	44.53	-0.50	44.03	74.00	-29.97	100	360	peak
3	2139.000	39.88	8.17	48.05	74.00	-25.95	180	360	peak
4	2802.000	37.61	11.42	49.03	74.00	-24.97	200	1	peak
5	3346.000	39.85	5.32	45.17	74.00	-28.83	100	38	peak
6	3975.000	39.94	6.45	46.39	74.00	-27.61	100	38	peak
7	5386.000	46.17	8.84	55.01	74.00	-18.99	100	360	peak
8	5386.000	27.31	8.84	36.15	54.00	-17.85	100	360	AVG
9	17813.000	35.72	24.95	60.67	74.00	-13.33	100	72	peak
10	17813.000	22.80	24.95	47.75	54.00	-6.25	100	72	AVG

Note:1. Result (dBuV/m) = Correction factor (dB/m) + Reading(dBuV).

2. Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

Test Standard:	FCC Part 15B	Test Distance:	3 m
Test Mode:	Mode 5	Test Power:	AC 120 V / 60 Hz
Measurement Range:	1 GHz~40 GHz	Ant.Polar.:	Horizontal

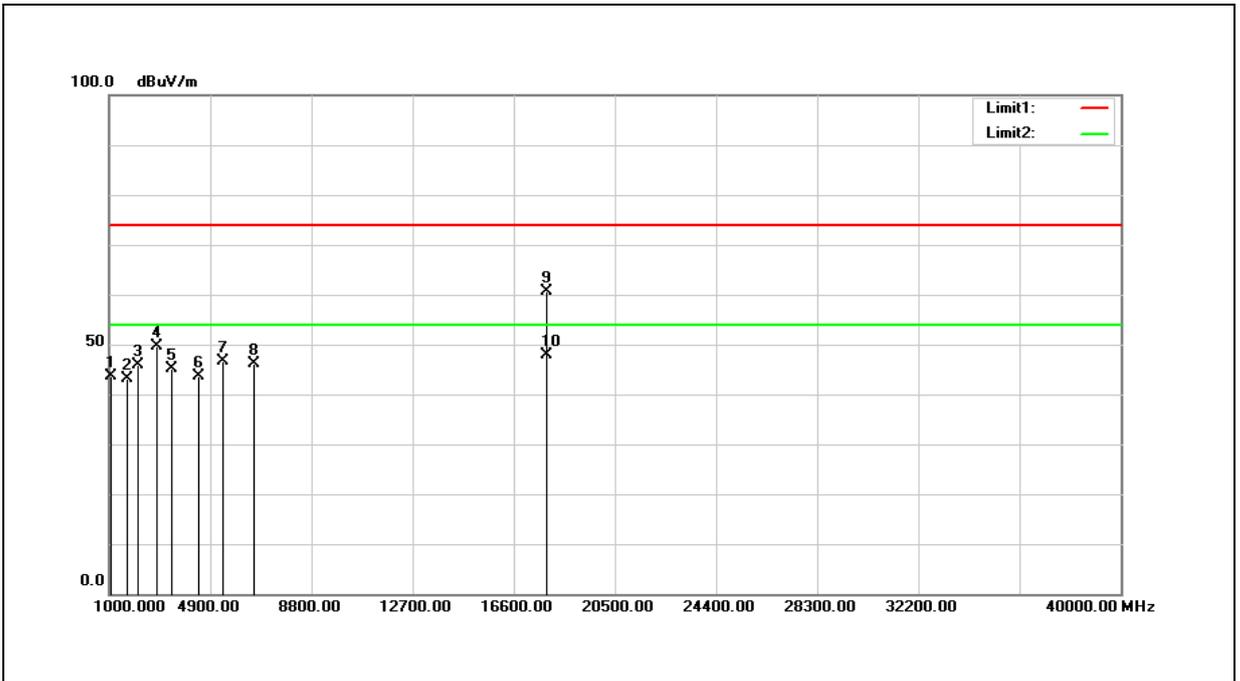


No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	1153.000	43.06	-3.27	39.79	74.00	-34.21	100	278	peak
2	1697.000	41.01	-0.14	40.87	74.00	-33.13	100	82	peak
3	2139.000	39.32	8.17	47.49	74.00	-26.51	100	74	peak
4	2802.000	37.60	11.42	49.02	74.00	-24.98	100	199	peak
5	3346.000	41.35	5.32	46.67	74.00	-27.33	100	23	peak
6	4417.000	36.50	7.18	43.68	74.00	-30.32	100	217	peak
7	5046.000	35.98	8.24	44.22	74.00	-29.78	100	258	peak
8	5726.000	35.32	9.36	44.68	74.00	-29.32	100	360	peak
9	17830.000	35.51	24.97	60.48	74.00	-13.52	200	0	peak
10	17830.000	22.55	24.97	47.52	54.00	-6.48	200	0	AVG

Note:1. Result (dBuV/m) = Correction factor (dB/m) + Reading(dBuV).

2. Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

Test Standard:	FCC Part 15B	Test Distance:	3 m
Test Mode:	Mode 5	Test Power:	AC 120 V / 60 Hz
Measurement Range:	1 GHz~40 GHz	Ant.Polar.:	Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	1068.000	47.12	-3.52	43.60	74.00	-30.40	100	270	peak
2	1680.000	43.50	-0.31	43.19	74.00	-30.81	110	360	peak
3	2122.000	38.80	7.10	45.90	74.00	-28.10	100	54	peak
4	2802.000	38.13	11.42	49.55	74.00	-24.45	103	360	peak
5	3414.000	39.59	5.42	45.01	74.00	-28.99	100	21	peak
6	4417.000	36.56	7.18	43.74	74.00	-30.26	171	360	peak
7	5386.000	37.84	8.84	46.68	74.00	-27.32	100	360	peak
8	6576.000	35.60	10.50	46.10	74.00	-27.90	100	140	peak
9	17830.000	35.63	24.97	60.60	74.00	-13.40	200	132	peak
10	17830.000	22.85	24.97	47.82	54.00	-6.18	200	132	AVG

Note:1. Result (dBuV/m) = Correction factor (dB/m) + Reading(dBuV).

2. Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

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