

EMC Test Report

Applicant : CATEYE CO., LTD.

Product Type : Air GPS

Trade Name : CATEYE

Model Number : CC-GPS100

Applicable Standard : FCC 47 CFR PART 15 SUBPART B
ANSI C63.4: 2014

Received Date : Feb. 24, 2022

Test Period : Mar. 02 ~ Mar. 14, 2022

Issued Date : Apr. 21, 2022

Issued by

A Test Lab Techno Corp.
No. 140-1, Changan Street, Bade District,
Taoyuan City 334025, Taiwan (R.O.C.)
Tel : +886-3-2710188 / Fax : +886-3-2710190



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 A Test Lab Technology Corporation.
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	Revisions	Revised By
00	Apr. 21, 2022	Initial Issue	Emma Chao

Verification of Compliance

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Product Type : Air GPS

Trade Name : CATEYE

Model Number : CC-GPS100

Applicable Standard : FCC 47 CFR PART 15 SUBPART B
ANSI C63.4: 2014

Test Result : Complied

Performing Lab. : A Test Lab Techno Corp.
No. 140-1, Changan Street, Bade District,
Taoyuan City 334025, Taiwan (R.O.C.)
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The above equipment has been tested by A Test Lab Techno Corp., 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 :

(Terry Liao)

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Appendix A. Test Setup Photographs

1 General Information

1.1. Summary of Test Result

Emission			
Standard	Item	Verdict	Remark
FCC 47 CFR PART 15 SUBPART B ANSI C63.4	Conducted Emission	PASS	Meet Class B limit Minimum margin is -13.72 dB at 0.1540 MHz
	Radiated Emission below 1 GHz	PASS	Meet Class B limit Minimum margin is -2.20 dB at 216.0240 MHz
	Radiated Emission above 1 GHz	PASS	Meet Class B limit Minimum margin is -16.35 dB at 13019.000 MHz

Decision Rule

- Uncertainty is not included.
- Uncertainty is included.

1.2. Testing Location

Site Name: A Test Lab Techno Corp.
 Site Address: No. 140-1, Changan Street, Bade District, Taoyuan City 334025, Taiwan (R.O.C.)
 Tel : +886-3-2710188
 Fax : +886-3-2710190

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		Frequency Range	Uncertainty (dB)
Conducted Emission	AC Power Port	9 kHz ~ 150 kHz	± 2.7
		150 kHz ~ 30 MHz	± 2.7

Test Item	Test Site	Frequency Range	Uncertainty (dB)	
Radiated Emission	TE06	30 MHz ~ 1000 MHz	Horizontal	± 4.3
			Vertical	± 4.9
	TE01	30 MHz ~ 1000 MHz	30 MHz ~ 1000 MHz	± 4.8
			1000 MHz ~ 6000 MHz	± 5.7
			6000 MHz ~ 18000 MHz	± 5.7
			18000 MHz ~ 26500 MHz	± 5.0
			26500 MHz ~ 40000 MHz	± 4.9
	TE09	30 MHz ~ 1000 MHz	30 MHz ~ 1000 MHz	± 4.9
			1000 MHz ~ 6000 MHz	± 5.2
			6000 MHz ~ 18000 MHz	± 5.3
			18000 MHz ~ 26500 MHz	± 4.6
			26500 MHz ~ 40000 MHz	± 4.8

1.4. Test Site Environment

Test Item	Items	Required (IEC 60068-1)	Actual
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

2 EUT Description

Applicant	CATEYE CO., LTD. 2-8-25, Kuwazu, Higashisumiyoshi-ku, Osaka 546-0041, Japan		
Product Type	Air GPS		
Trade Name	CATEYE		
Model Number	CC-GPS100		
I/O Ports	Refer to the user manual provided by clients.		
Highest Operating Frequency	2480 MHz		
EUT Power Rating	DC 5 V, 2 A DC 3.7 V, 400 mAh(Battery)		
Component List			
Battery	Trade Name	SHENZHEN AIBOD TECHNOLOGY CO., LTD.	Model Number PL602429
	3.7 Vdc, 400 mAh, 1.48 Wh		
USB Cable	Trade Name	CATEYE	Model Number CC-GPS100

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: GPS Rx + Bluetooth link mode	
Mode 2: USB link with Notebook mode	

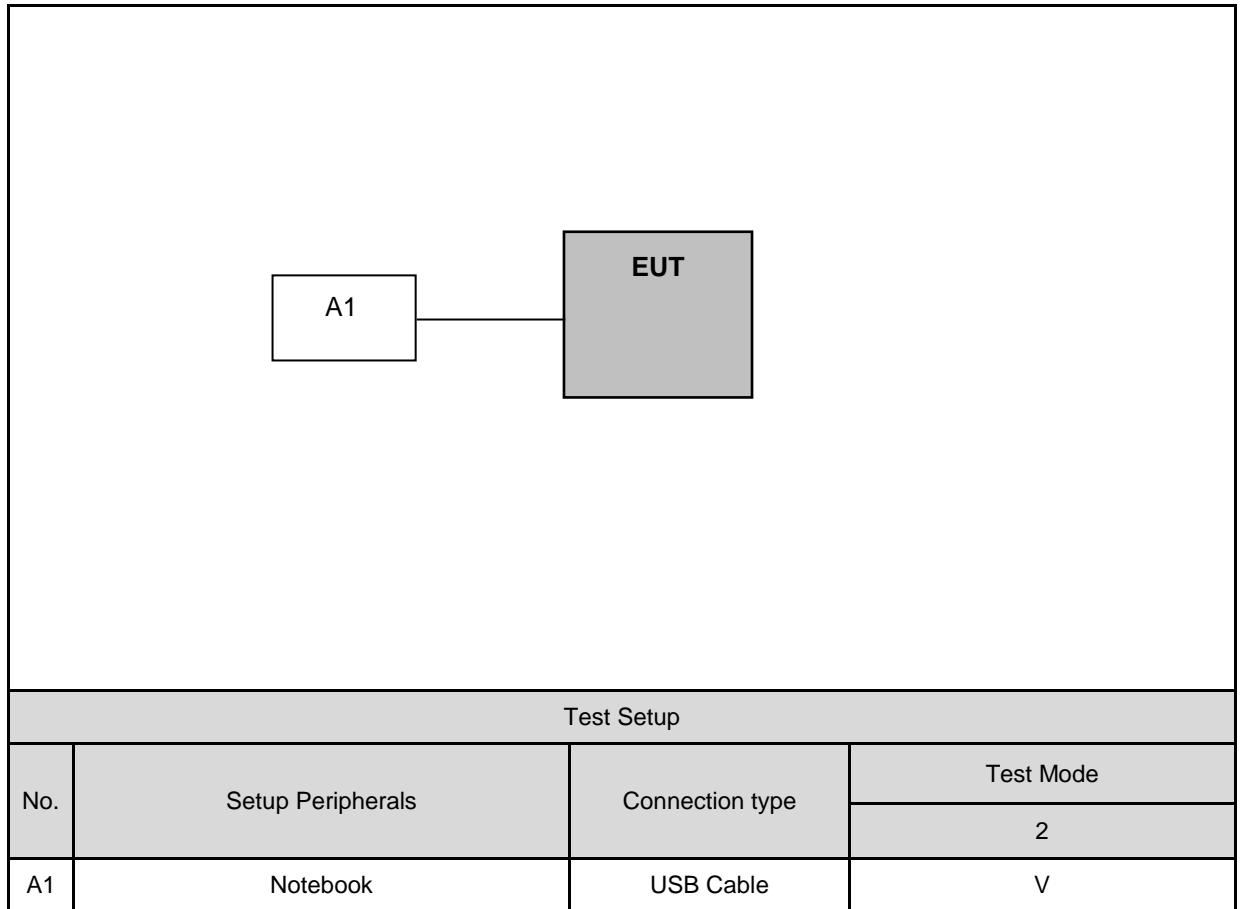
3.1.2. After the preliminary scan, the following test mode was final mode and found to produce the highest emission level.

Final Test Mode			
EMI	Conducted Emission		Mode 2
	Radiated Emission	Below 1 GHz	Mode 2
		Above 1 GHz	Mode 2

3.2. EUT Test Step

1. Setup the EUT and simulators as shown on 3.3.
2. Turn on the power all equipment.
3. The EUT link Notebook by USB.
4. Start to test till get the worst reading.

3.3. Configuration of Test System Details



Support Unit used in test configuration and system						
	Product	Manufacturer	Model Number	Serial Number	Data Cable	Power Cord
(1)	Notebook	Thinkpad	E450c	N/A	Shielded, 0.1 m	Non-Shielded, 1.8 m

3.4. Test Instruments

Test Period: Mar. 14, 2022

Testing Engineer: Yaofeng Huang

Conducted Emission test site					
Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period
Test Receiver	R&S	ESCI	100367	May 21, 2021	1 year
LISN	R&S	ENV216	101041	Apr. 08, 2021	1 year
Cable	Woken	00100D1380194M	TE-02-03 (CB-098)	May 28, 2021	1 year
Software	EZ EMC	1.1.4.3	-----	-----	-----
Test Site	ATL	TE02	TE02	N.C.R.	-----

Test Period: Mar. 02, 2022

Testing Engineer: Jacky Wu

Radiated Emission - 10 Meter Chamber					
Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period
Amplifier	EMCI	EMC9135	980298	Oct. 26, 2021	1 year
Amplifier	EMCI	EMC9135	980299	Nov. 28, 2021	1 year
Test Receiver	R&S	ESCI	100722	Nov. 01, 2021	1 year
Test Receiver	R&S	ESCI	101000	Nov. 25, 2021	1 year
Broadband Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB 9168	670	Nov. 14, 2021	1 year
Broadband Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB 9168	671	Nov. 30, 2021	1 year
RF Cable	EMC	EMC102-N-N-6000	TE06-H-1	Feb. 14, 2022	1 year
RF Cable	EMC	EMC102-N-N-7000	TE06-H-2	Feb. 14, 2022	1 year
RF Cable	EMC	EMC102-N-N-3000	TE06-H-3	Feb. 14, 2022	1 year
RF Cable	EMC	EMC102-N-N-1000	TE06-H-4	Feb. 14, 2022	1 year
RF Cable	EMC	EMC102-N-N-7000	TE06-V-2	Feb. 14, 2022	1 year
RF Cable	EMC	EMC102-N-N-3000	TE06-V-3	Feb. 14, 2022	1 year
RF Cable	EMC	EMC102-N-N-1000	TE06-V-4	Feb. 14, 2022	1 year
RF Cable	EMC	EMC104-N-N-6000	TE06-V-5	Feb. 14, 2022	1 year
Software	EZ EMC	1.1.4.2	----	----	----
Test Site	ATL	TE06	TE06	Oct. 17, 2021	1 year

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

Test Period: Mar. 03, 2022

Testing Engineer: Dean Ho

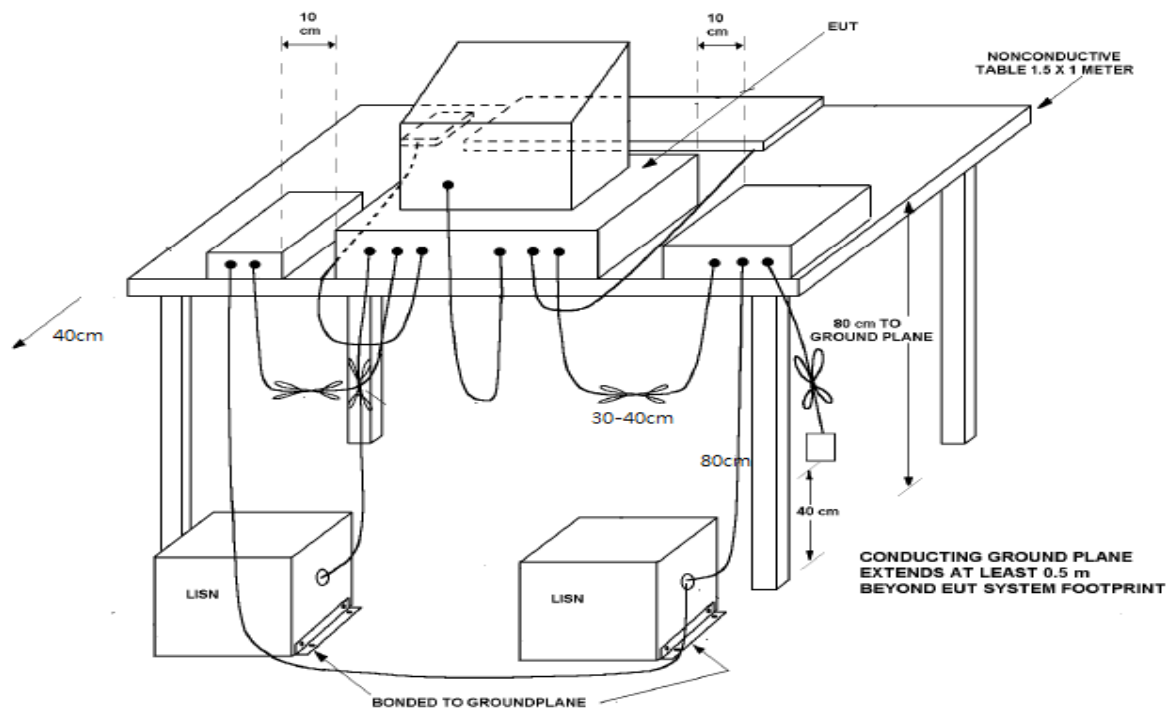
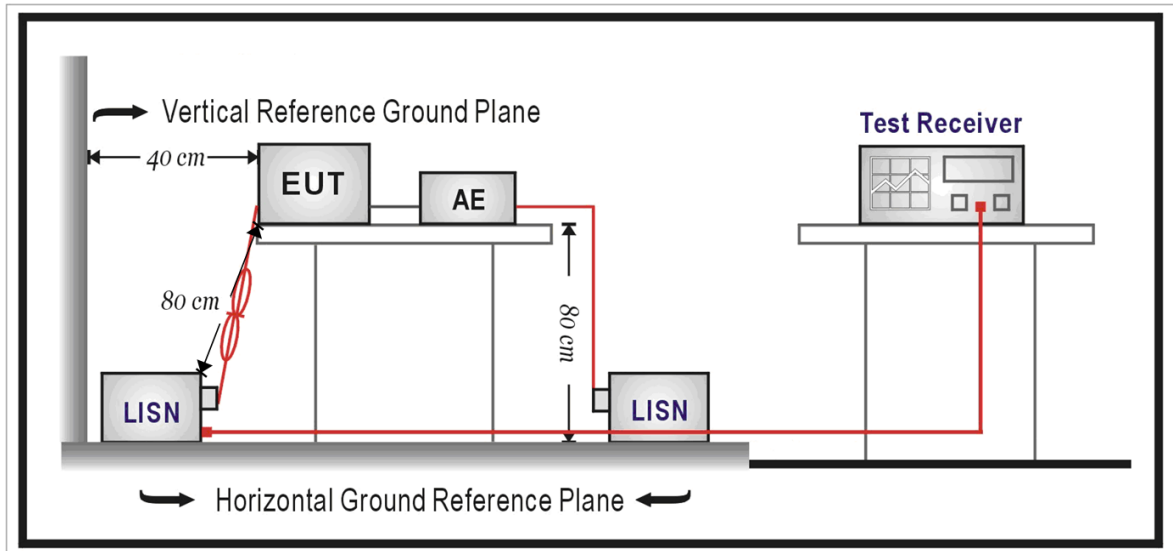
Radiated Emission - 3 Meter Chamber					
Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period
Receiver	R & S	ESR26	101752	May 27, 2021	1 year
Amplifier (1-26.5 GHz)	Agilent	8449B	3008A02456	Mar. 30, 2021	1 year
Double Ridged Horn Antenna (1-18 GHz)	ETS	3117	00128055	Sep. 08, 2021	1 year
Microwave Cable	EMCI	EMC104-SM-SM-1500	140303	Feb. 16, 2022	1 year
Microwave Cable	EMCI	EMC104-SM-SM-13000	150503	Feb. 16, 2022	1 year
Software	EZ EMC	1.1.4.4	-----	-----	-----
Test Site(VSWR)	ATL	TE09	TE09	Apr. 10, 2021	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 50ohm 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 40cm to the rear of the EUT. Other surfaces of tabletop or floor standing EUT shall be at least 80cm 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.

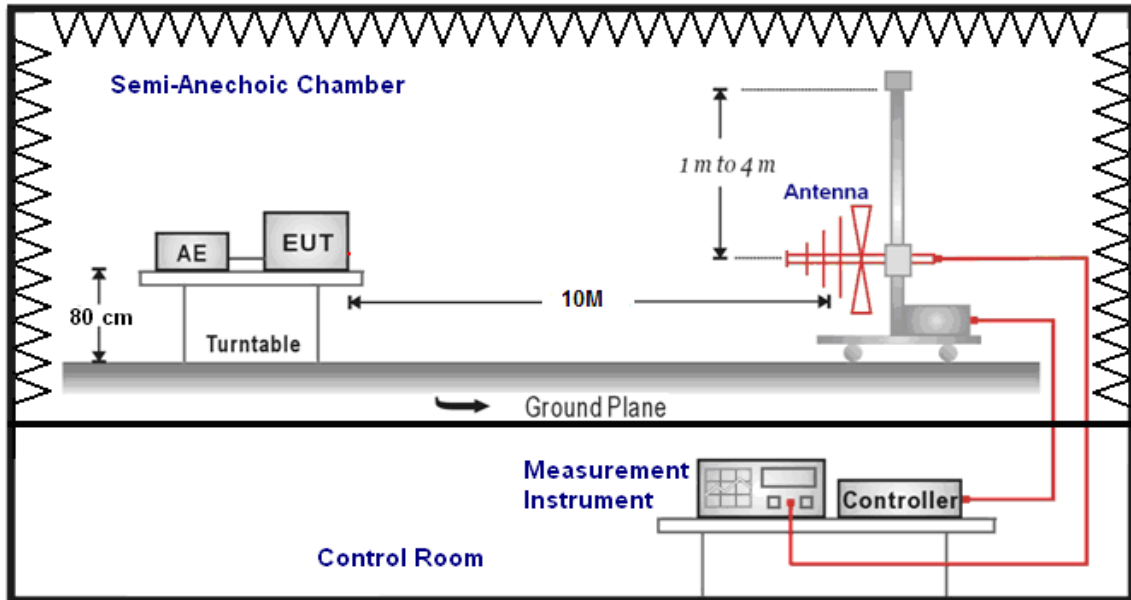
The AMN shall be placed 0,8 m from the boundary of the unit under test and bonded to a ground reference plane for AMNs mounted on top of the ground reference plane. This distance is between the closest points of the AMN and the EUT. All other units of the EUT and associated equipment shall be at least 0,8 m from the AMN. If the mains power cable is longer than 1m 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 50Ω ports of the LISN shall be resistively terminated into 50Ω 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.

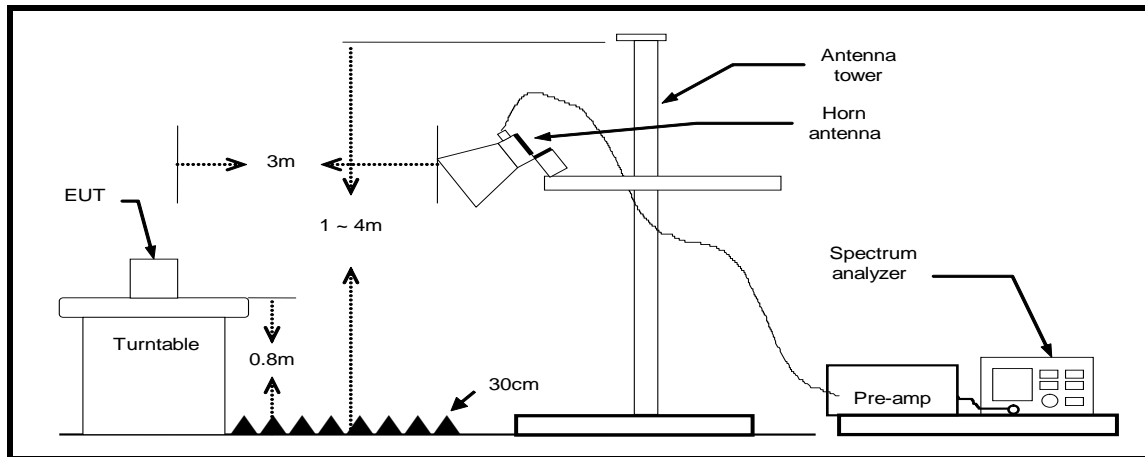
4.2. Radiated Emission

■ Test Setup

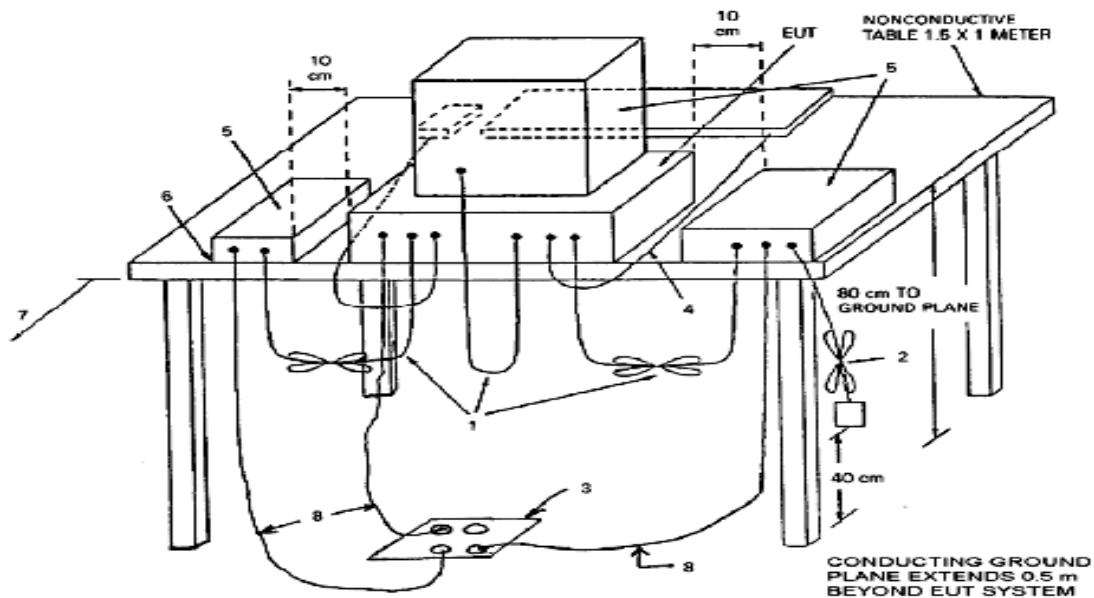
Below 1 GHz



Above 1 GHz



Test arrangement for radiated emissions of tabletop equipment.



■ **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 0.4 m 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 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".

Above 1 GHz

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

5 Requirements and Performance Criteria

5.1. Conducted Emission

■ 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	Distance (m)	dBuV/m
30 to 88	10	39	3	40
88 to 216	10	43.5	3	43.5
216 to 960	10	46.4	3	46
Above 960	10	49.5	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 3 m)			
	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 (μ V/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:

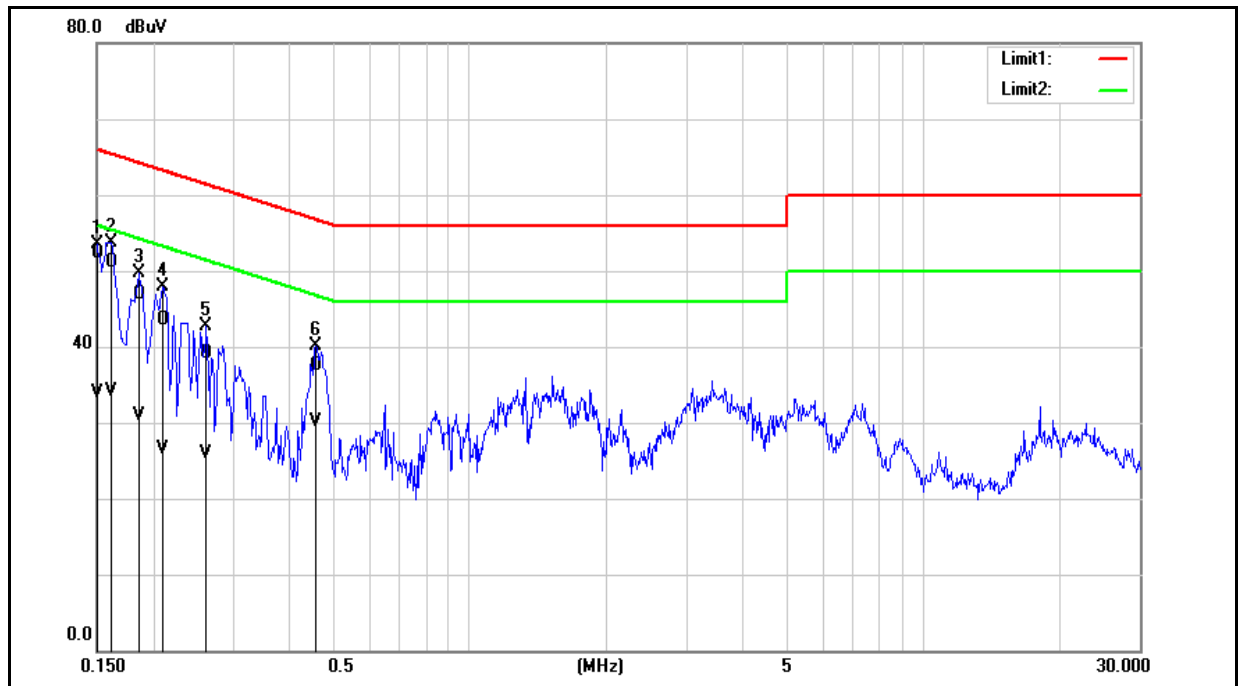
Highest frequency generated or used in the device or in which the device operated or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 1.705	30
1.705-108	1000
108-500	2000
500-1000	5000
Above 1000	5th harmonic of the highest frequency or 40 GHz, whichever is lower

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:			

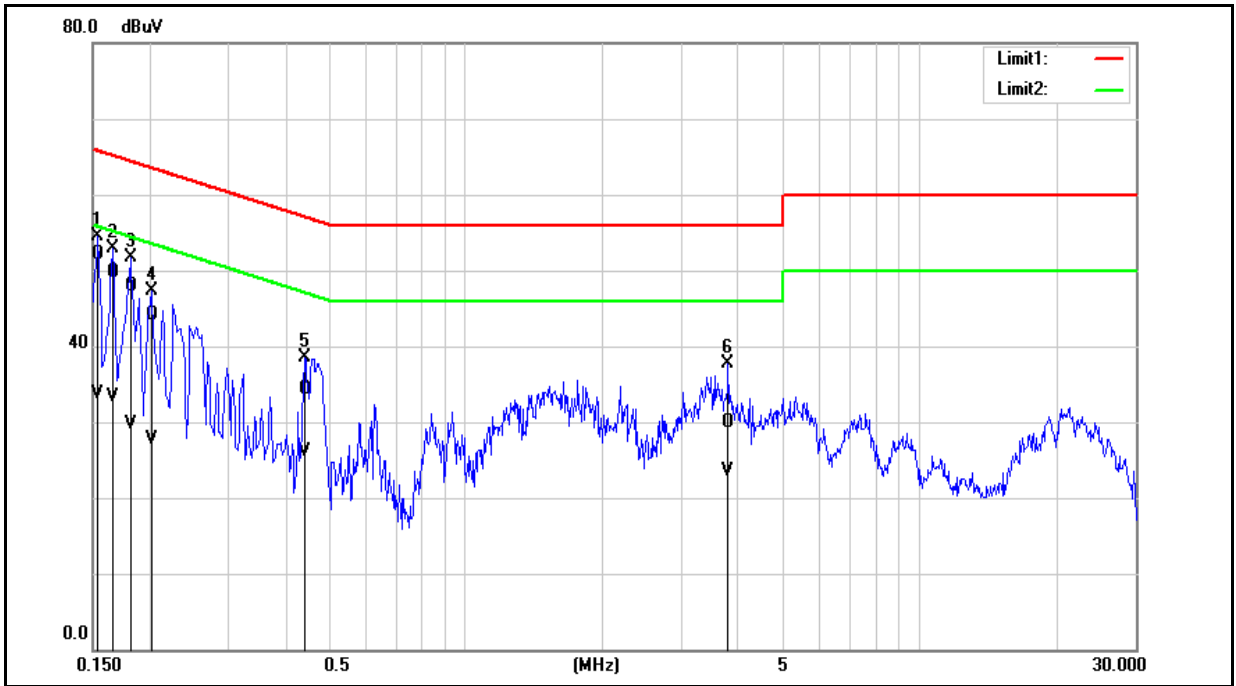


No.	Frequency (MHz)	QP reading (dBuV)	AVG reading (dBuV)	Correction factor (dB)	QP result (dBuV)	AVG result (dBuV)	QP limit (dBuV)	AVG limit (dBuV)	QP margin (dB)	AVG margin (dB)	Remark
1	0.1500	42.50	24.26	9.74	52.24	34.00	66.00	56.00	-13.76	-22.00	Pass
2	0.1620	41.36	24.44	9.74	51.10	34.18	65.36	55.36	-14.26	-21.18	Pass
3	0.1860	37.24	21.11	9.74	46.98	30.85	64.21	54.21	-17.23	-23.36	Pass
4	0.2100	33.85	16.86	9.74	43.59	26.60	63.21	53.21	-19.62	-26.61	Pass
5	0.2620	29.27	16.25	9.74	39.01	25.99	61.37	51.37	-22.36	-25.38	Pass
6	0.4580	27.86	20.32	9.74	37.60	30.06	56.73	46.73	-19.13	-16.67	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:			



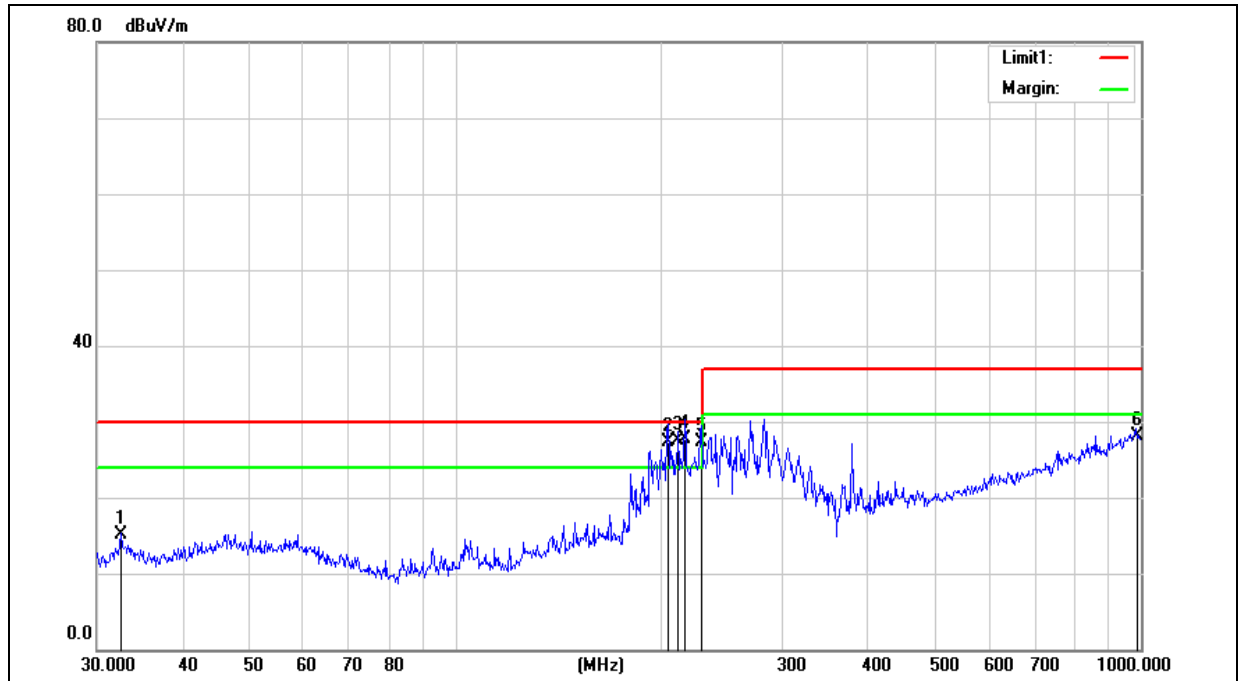
No.	Frequency (MHz)	QP reading (dBuV)	AVG reading (dBuV)	Correction factor (dB)	QP result (dBuV)	AVG result (dBuV)	QP limit (dBuV)	AVG limit (dBuV)	QP margin (dB)	AVG margin (dB)	Remark
1	0.1540	42.32	23.94	9.74	52.06	33.68	65.78	55.78	-13.72	-22.10	Pass
2	0.1660	40.02	23.61	9.74	49.76	33.35	65.16	55.16	-15.40	-21.81	Pass
3	0.1820	38.14	20.04	9.73	47.87	29.77	64.39	54.39	-16.52	-24.62	Pass
4	0.2020	34.31	17.94	9.73	44.04	27.67	63.53	53.53	-19.49	-25.86	Pass
5	0.4420	24.57	16.47	9.73	34.30	26.20	57.02	47.02	-22.72	-20.82	Pass
6	3.7940	20.12	13.58	9.85	29.97	23.43	56.00	46.00	-26.03	-22.57	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

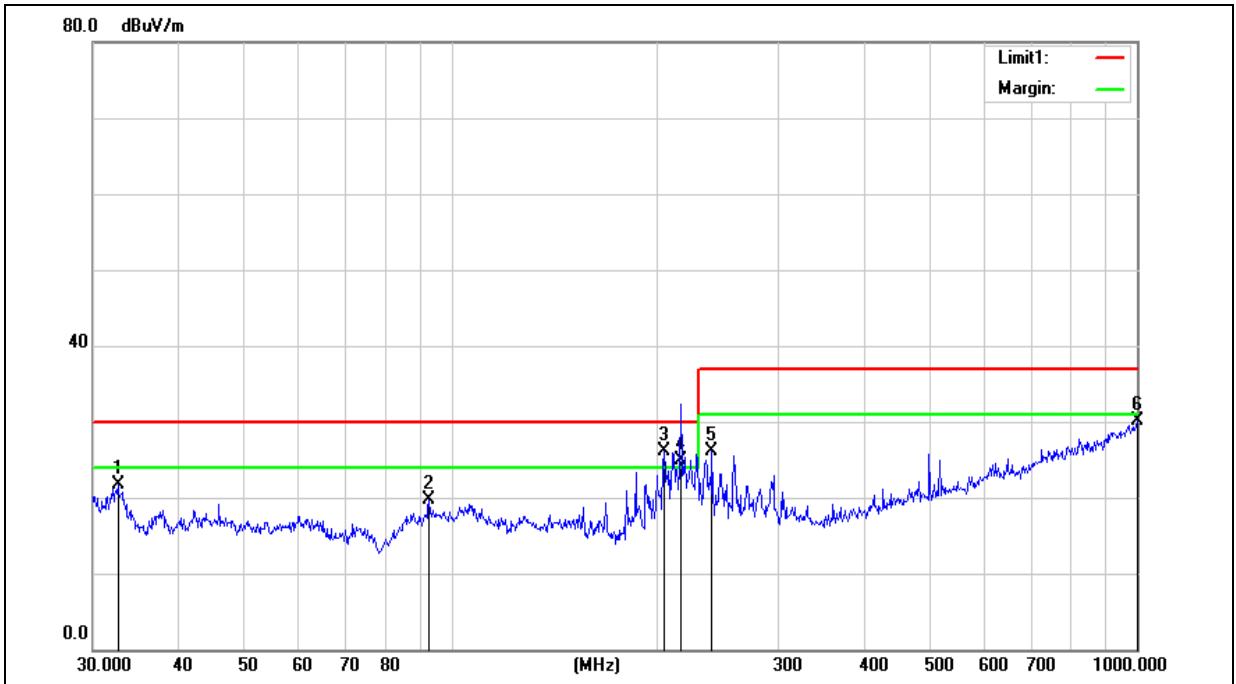


No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	32.5198	34.53	-19.33	15.20	30.00	-14.80	300	0	QP
2	204.2377	46.38	-19.08	27.30	30.00	-2.70	400	45	QP
3	211.5265	46.73	-19.23	27.50	30.00	-2.50	400	245	QP
4	216.0240	46.96	-19.16	27.80	30.00	-2.20	300	27	QP
5	228.4904	46.08	-18.68	27.40	30.00	-2.60	400	238	QP
6	989.5355	30.65	-2.45	28.20	37.00	-8.80	100	359	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

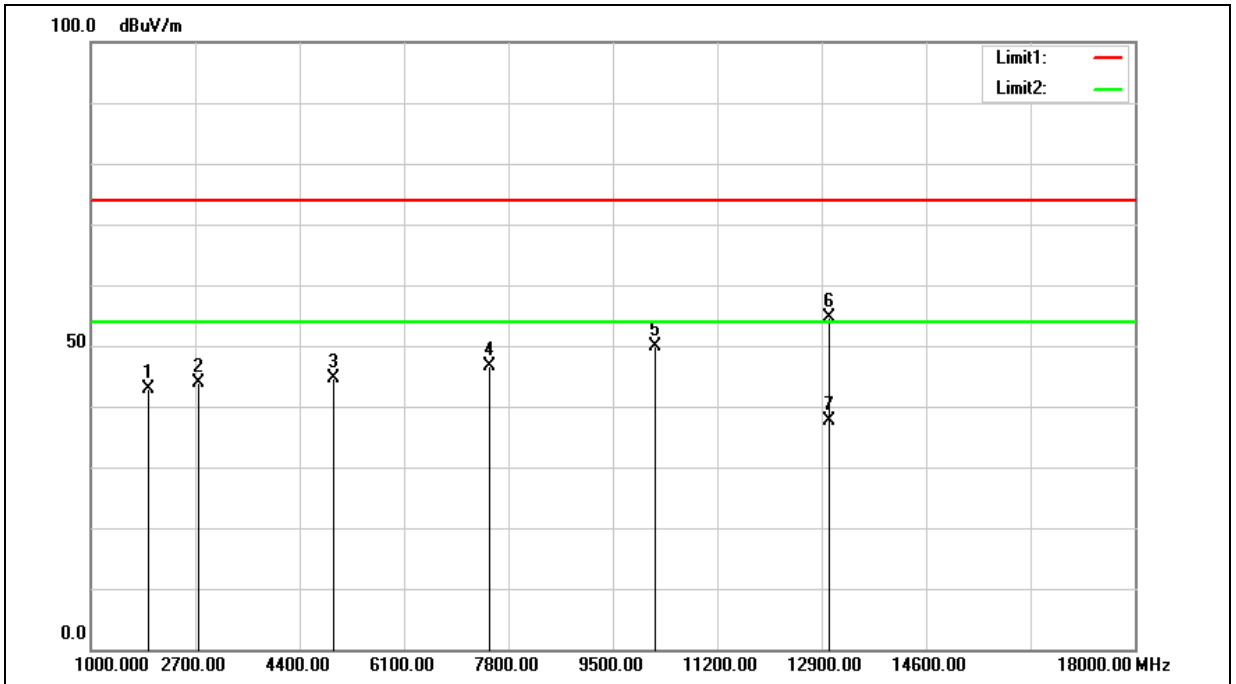


No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	32.6340	39.87	-18.17	21.70	30.00	-8.30	100	360	QP
2	92.7871	41.09	-21.39	19.70	30.00	-10.30	399	280	QP
3	204.2377	43.81	-17.61	26.20	30.00	-3.80	100	327	QP
4	216.0240	42.54	-17.64	24.90	30.00	-5.10	200	0	QP
5	239.9874	42.04	-15.94	26.10	37.00	-10.90	100	348	QP
6	1000.0000	29.11	1.09	30.20	37.00	-6.80	399	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~30 GHz	Ant.Polar.:	Horizontal

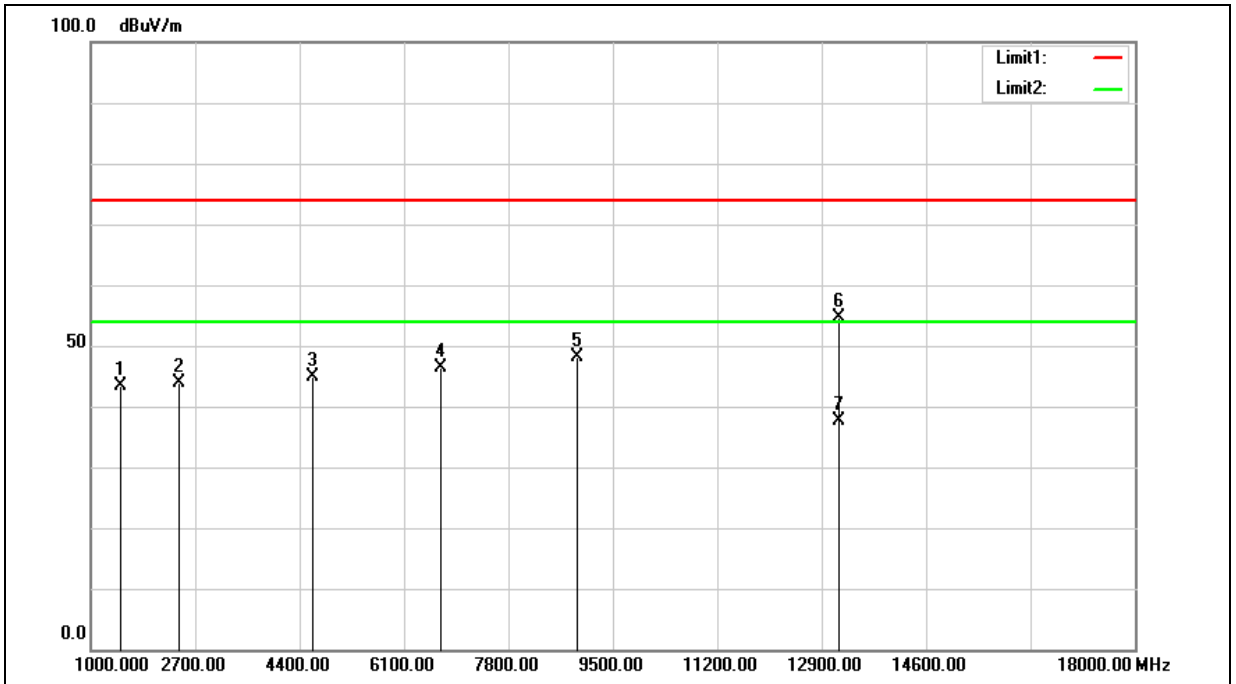


No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	1935.000	42.34	0.62	42.96	74.00	-31.04	200	282	peak
2	2751.000	40.92	3.02	43.94	74.00	-30.06	100	228	peak
3	4961.000	37.32	7.22	44.54	74.00	-29.46	200	348	peak
4	7494.000	36.40	10.21	46.61	74.00	-27.39	100	129	peak
5	10197.000	36.29	13.61	49.90	74.00	-24.10	200	242	peak
6	13019.000	35.49	19.13	54.62	74.00	-19.38	200	0	peak
7	13019.000	18.52	19.13	37.65	54.00	-16.35	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 2	Test Power:	AC 120 V / 60 Hz
Measurement Range:	1 GHz~30 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	1493.000	46.91	-3.50	43.41	74.00	-30.59	100	360	peak
2	2428.000	41.67	2.12	43.79	74.00	-30.21	200	343	peak
3	4621.000	38.19	6.67	44.86	74.00	-29.14	200	203	peak
4	6695.000	36.55	9.89	46.44	74.00	-27.56	100	87	peak
5	8922.000	36.90	11.15	48.05	74.00	-25.95	100	132	peak
6	13189.000	35.42	19.22	54.64	74.00	-19.36	158	360	peak
7	13189.000	18.32	19.22	37.54	54.00	-16.46	158	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).

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