

EMC Test Report

Applicant : PISMO LABS TECHNOLOGY LIMITED
Product Type : PEPWAVE / peplink Wireless Product
Trade Name : PEPWAVE / peplink
Model Number : Balance 20X, B20X, Surf SOHO, Surf SOHO LTE, Surf SOHO LTEA, Balance 20X LTE, Balance 20X LTEA, PismoAC8E, BPL-021X-LTE-US-T, BPL-021X-LTEA-W-T, EXM-MINI-1LTEA-W, EXM-MINI-1LTEA-P, PismoAC8P, PismoAC8
FCC ID : U8G-P1AC8E
Applicable Standard : FCC 47 CFR PART 15 SUBPART B
ANSI C63.4: 2014
Receive Date : Jul. 01, 2019
Test Period : Jul. 03 ~ Jul. 09, 2019
Issue Date : Aug. 21, 2019

Issue by

A Test Lab Techno Corp.
No. 140-1, Changan Street, Bade District,
Taoyuan City 33465, Taiwan (R.O.C.)
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Testing Laboratory
1330

Taiwan Accreditation Foundation accreditation number: 1330

Test Firm MRA designation number: TW1062

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.	Issue Date	Revisions	Revised By
00	Aug. 21, 2019	Initial Issue	Serene Yang

Verification of Compliance

Issued Date: Aug. 21, 2019

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Product Type : PEPWAVE / peplink Wireless Product

Trade Name : PEPWAVE / peplink

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EUT Rated Voltage : DC 12 V, 3 A

Test Voltage : 120 Vac / 60 Hz

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 33465, Taiwan (R.O.C.)
Tel : +886-3-2710188 / Fax : +886-3-2710190
Taiwan Accreditation Foundation accreditation number: 1330
<http://www.atl-lab.com.tw/e-index.htm>



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 Reviewed By : Misty Wu
(Manager) _____ (Testing Engineer) _____
(Terry Liao) (Misty Wu)

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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
FCC 47 CFR PART 15 SUBPART B ANSI C63.4	Radiated Emission	PASS	Meet Class B limit

1.2. Testing Location

Site Name: A Test Lab Techno Corp.

<http://www.atl-lab.com.tw/e-index.htm>

Site Address: No. 140-1, Changan Street, Bade District, Taoyuan City 33465, Taiwan (R.O.C.)

Tel : +886-3-2710188

Fax : +886-3-2710190

1.3. Measurement Uncertainty

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	5.6
			Vertical	6.0
	TE01	1000 MHz ~ 6000 MHz		5.2
		6000 MHz ~ 18000 MHz		5.5
		18000 MHz ~ 26500 MHz		4.8
		26500 MHz ~ 40000 MHz		4.8
	TE09	1000 MHz ~ 6000 MHz		4.9
		6000 MHz ~ 18000 MHz		5.3
		18000 MHz ~ 26500 MHz		4.5
		26500 MHz ~ 40000 MHz		4.8
Note: The Vertical and Horizontal measurement uncertainty of 1 GHz to 40 GHz is evaluated and choose which polarity is worst value.				

Decision Rule

- Uncertainty is not included.
- Uncertainty is included.

1.4. Test Site Environment

Test Item	Items	Required (IEC 60068-1)	Actual
Conducted Emission	Temperature (°C)	15-35	26
	Humidity (%RH)	25-75	60
	Barometric pressure (mbar)	860-1060	990
Radiated Emission	Temperature (°C)	15-35	26
	Humidity (%RH)	25-75	60
	Barometric pressure (mbar)	860-1060	990

2 EUT Description

Applicant	PISMO LABS TECHNOLOGY LIMITED A8, 5/F, HK Spinners Industrial Building, Phase 6, 481 Castle Peak Road, Cheung Sha Wan, Hong Kong			
Manufacturer	PISMO LABS TECHNOLOGY LIMITED A8, 5/F, HK Spinners Industrial Building, Phase 6, 481 Castle Peak Road, Cheung Sha Wan, Hong Kong			
Product Type	PEPWAVE / peplink Wireless Product			
Trade Name	PEPWAVE / peplink			
Model Number	Balance 20X, B20X, Surf SOHO, Surf SOHO LTE, Surf SOHO LTEA, Balance 20X LTE, Balance 20X LTEA, PismoAC8E, BPL-021X-LTE-US-T, BPL-021X-LTEA-W-T, EXM-MINI-1LTEA-W, EXM-MINI-1LTEA-P, PismoAC8P, PismoAC8			
Product Type / Trade Name / Model Different Description	Those items differ from each other in selling region.			
I/O Ports	Refer to User Manual			
Highest Operating Frequency	5850 MHz			
Component List				
Power adapter	Trade Name	DVE	Model Number	DSA-36PFH-12 FUS 120300AN
	I/P: 100-240 VAC, 50/60 Hz, 1 A O/P: 12 VDC, 3 A Cable out: Shielded, 1.6 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: LTE Band2 + GPS + WiFi + LAN link mode (MC7455)	
Mode 2: WCDMA Band2 + GPS + WiFi + LAN link mode (MC7455)	
Mode 3: LTE Band2 + GPS + WiFi + LAN link mode (LE910C4-NF)	

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 1
	Radiated Emission	Below 1 GHz	Mode 1
		Above 1 GHz	Mode 1

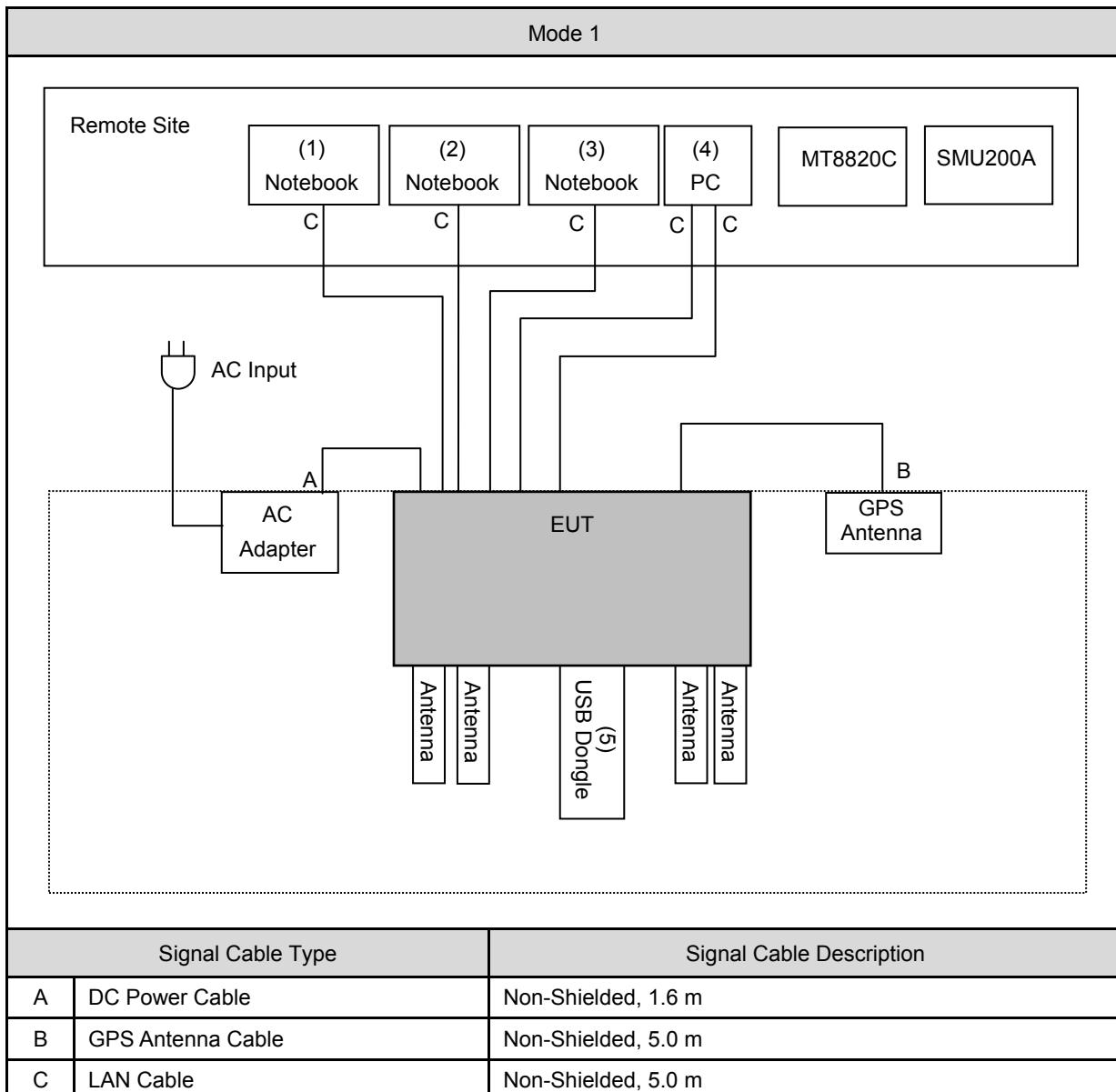
The above highest emission mode of the configuration of the EUT and cable was chosen for all final test items.

3.2. EUT Test Step

1	Setup the EUT and simulators as shown on 3.3.
2	Turn on the power of all equipment.
3	The notebook link to EUT through LAN and transfer data.
4	The notebook link to EUT through Wi-Fi and transfer data.
5	The EUT Link to MT8820C for LTE.
6	The EUT Link to SMU200A for GPS.
7	Start to test get the worst.

Measurement Software			
No.	Description	Software	Version
1	Conducted Emission	EZ EMC	1.1.4.3
2	Radiated Emission _ Below 1 GHz	EZ EMC	1.1.4.2
3	Radiated Emission _ Above 1 GHz	EZ EMC	1.1.4.4

3.3. Configuration of Test System Details



Devices Description					
Product		Manufacturer	Model Number	Serial Number	Power Cord
(1)	Notebook	DELL	LATITUDE E5440	25627158361	Non-Shielded, 0.8 m
(2)	Notebook	DELL	LATITUDE E5440	6699565657	Non-Shielded, 0.8 m
(3)	Notebook	DELL	P67G	8573954114	Non-Shielded, 0.8 m
(4)	PC	DELL	9020	1JMBW02	Non-Shielded, 0.8 m
(5)	USB Dongle	Transcend	JetFlash500	N/A	Power by EUT

3.4. Test Instruments

Test Period : Jul. 03, 2019

Conducted Emission test site					
Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period
Test Receiver	R&S	ESCI	100367	05/23/2019	1 year
LISN	R&S	ENV216	101040	04/03/2019	1 year
LISN	R&S	ENV216	101041	03/28/2019	1 year
Wireless COM.TEST.SET	Agilent	E5515C	MY47511156	09/11/2018	1 year
Radio Communication Analyzer	Anritsu	MT8820C	6201342039	12/13/2018	1 year
Signal Generator	R&S	SMU200A	102598	04/08/2019	1 year
Test Site	ATL	TE02	TE02	N.C.R.	-----

Test Period : Jul. 09, 2019

Radiated Emission - 10 Meter Chamber					
Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period
Amplifier	EMCI	EMC9135	980298	10/24/2018	1 year
Amplifier	EMCI	EMC9135	980299	11/29/2018	1 year
Test Receiver	R&S	ESCI	100722	10/24/2018	1 year
Test Receiver	R&S	ESCI	101000	12/03/2018	1 year
Broadband Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB 9168	670	10/23/2018	1 year
Broadband Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB 9168	671	12/03/2018	1 year
Wireless COM.TEST.SET	Agilent	E5515C	MY47511156	09/11/2018	1 year
Radio Communication Analyzer	Anritsu	MT8820C	6201342039	12/13/2018	1 year
Signal Generator	R&S	SMU200A	102598	04/08/2019	1 year
Test Site	ATL	TE06	TE06	10/21/2018	1 year

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

Test Period : Jul. 09, 2019

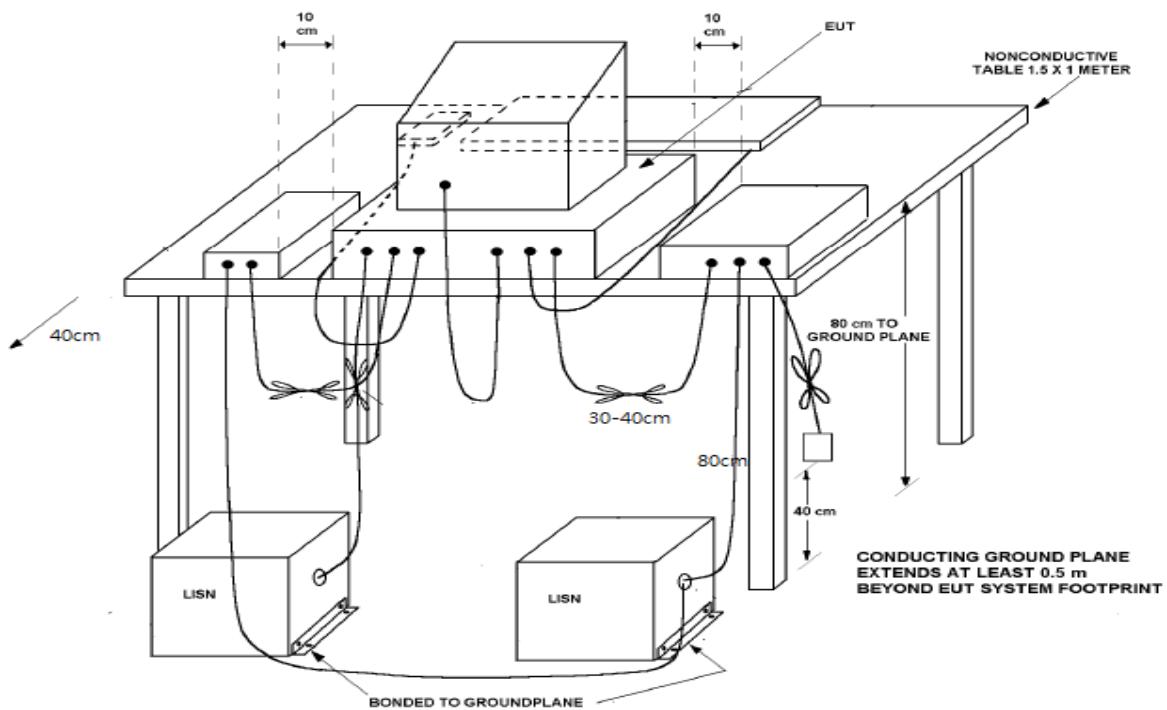
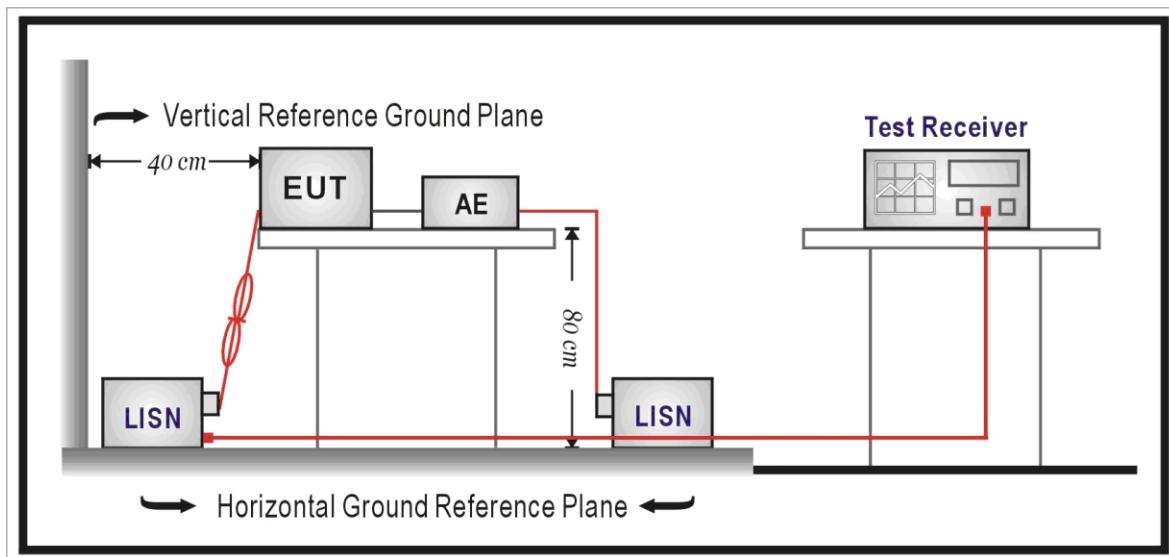
Radiated Emission - 3 Meter Chamber					
Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period
EXA Signal Analyzer	Keysight	N9010A	MY52221312	01/14/2019	1 year
Amplifier	Agilent	8449B	3008A02456	03/20/2019	1 year
Double Ridged Horn Antenna (1~18 GHz)	ETS	3117	00152321	09/27/2018	1 year
Preamplifier	EMCI	EMC2654045	980028	08/23/2018	1 year
Horn Antenna (18~40 GHz)	SCHWARZBECK MESS-ELEKTRONIK	9170	9170-320	08/07/2018	1 year
Wireless COM.TEST.SET	Agilent	E5515C	MY47511156	09/11/2018	1 year
Radio Communication Analyzer	Anritsu	MT8820C	6201342039	12/13/2018	1 year
Signal Generator	R&S	SMU200A	102598	04/08/2019	1 year
Test Site	ATL	TE09	TE09	04/11/2019	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.

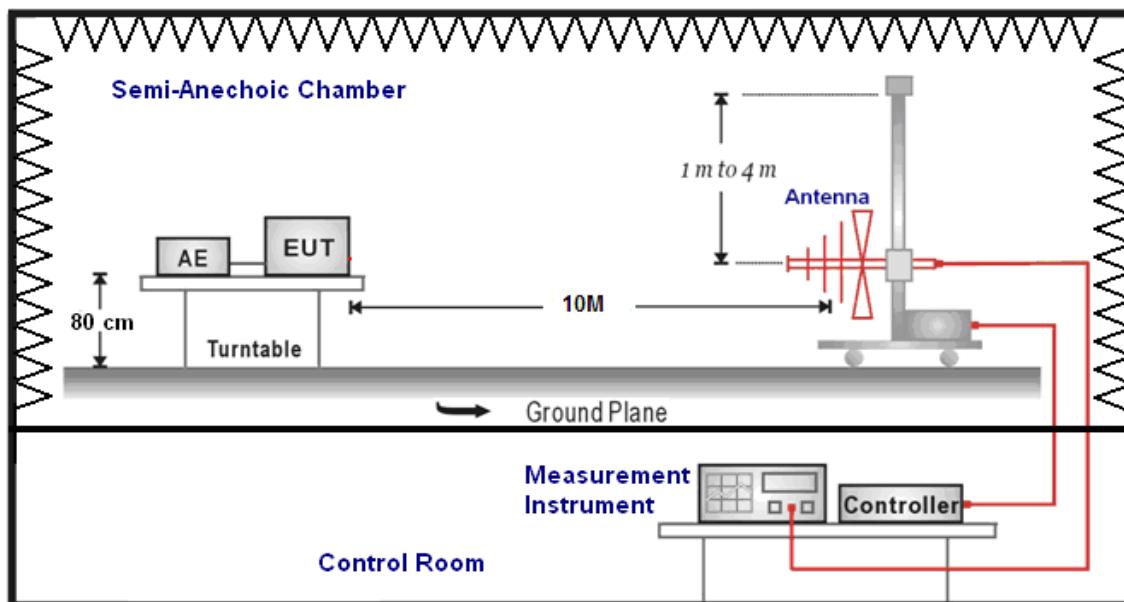
The AMN shall be placed 0,8 m from the boundary of the unit under test and bonded to a ground reference plane for AMNs mounted on top of the ground reference plane. This distance is between the closest points of the AMN and the EUT. All other units of the EUT and associated equipment shall be at least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

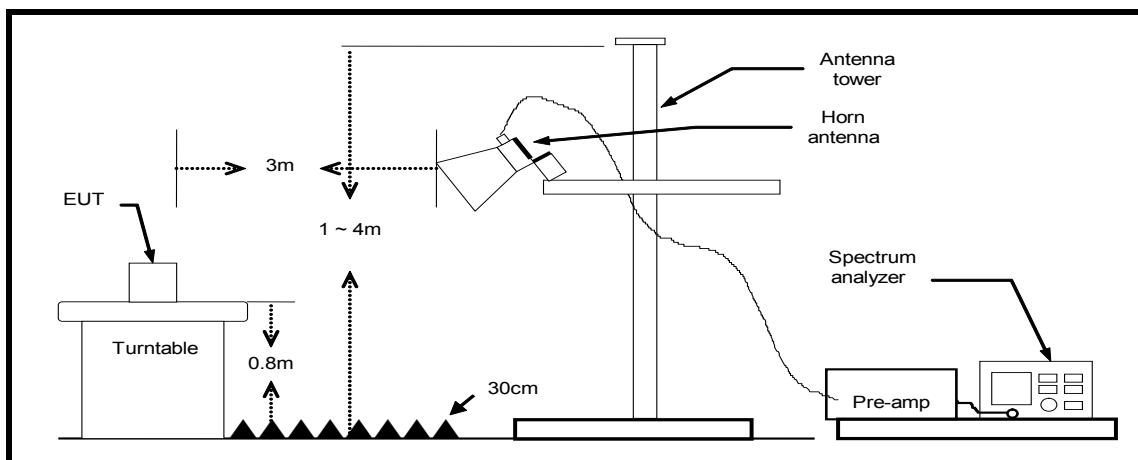
4.2. Radiated Emission

■ Test Setup

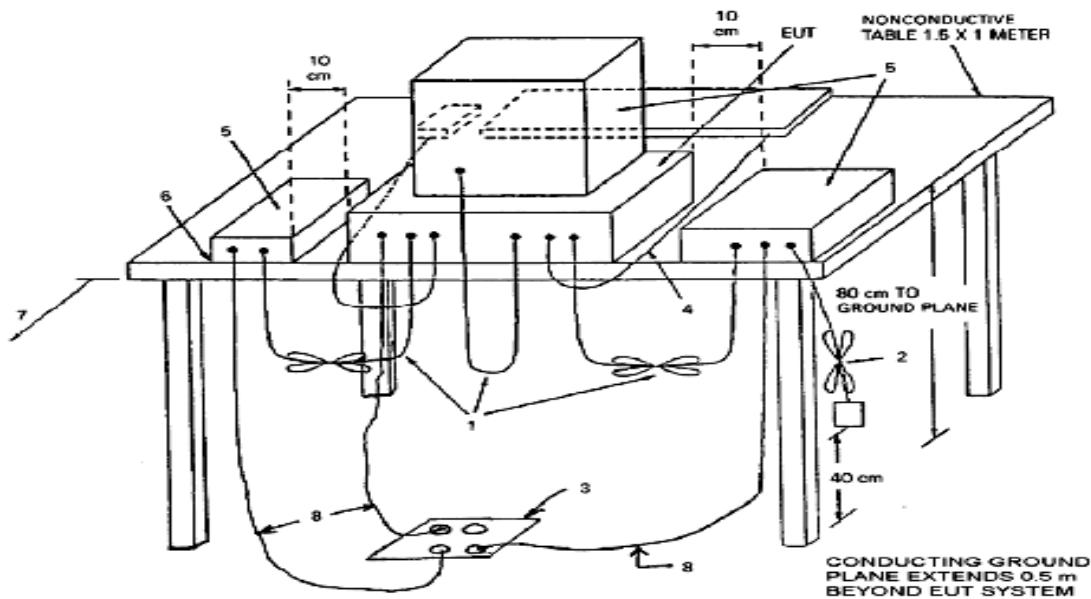
Below 1 GHz



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 Test Results

5.1. Conducted Emission

■ Limit

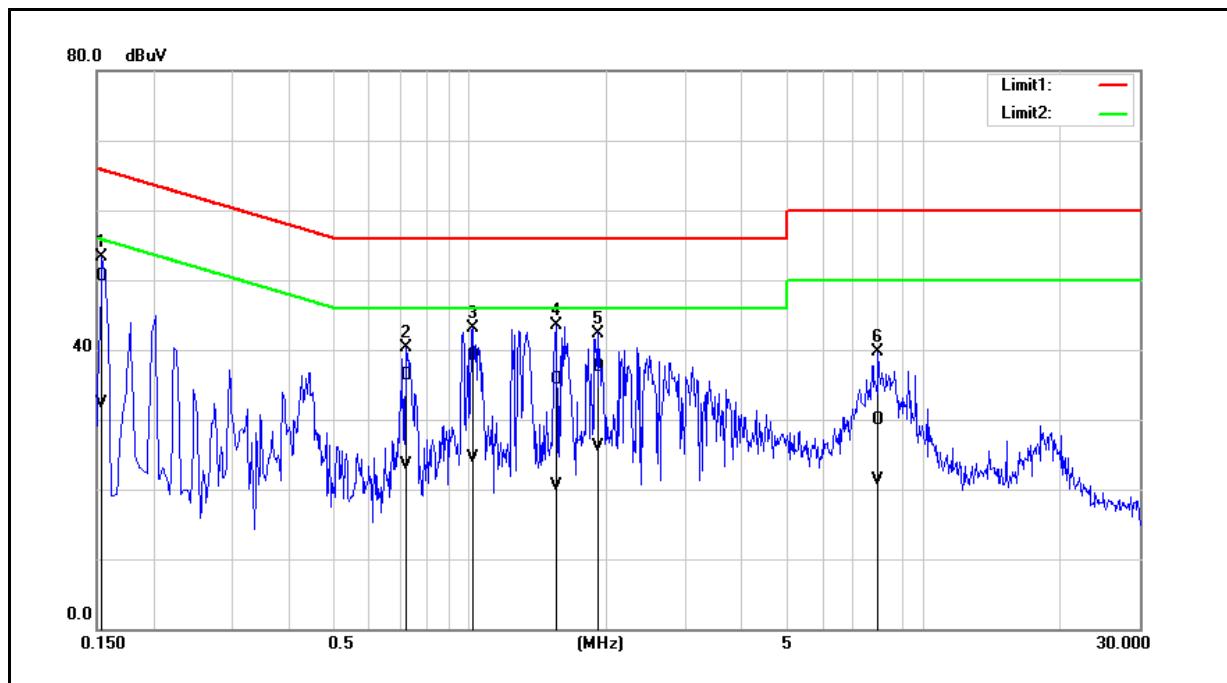
Frequency (MHz)	Class A (dBuV)		Class B (dBuV)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 - 0.5	79	66	66 - 56	56 - 46
0.50 - 5.0	73	60	56	46
5.0 - 30.0	73	60	60	50

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.

■ Test Result

Test Standard:	FCC Part 15B	Power Line:	L1
Test Mode:	Mode 1	Test Power:	AC 120 V / 60 Hz
Description:			

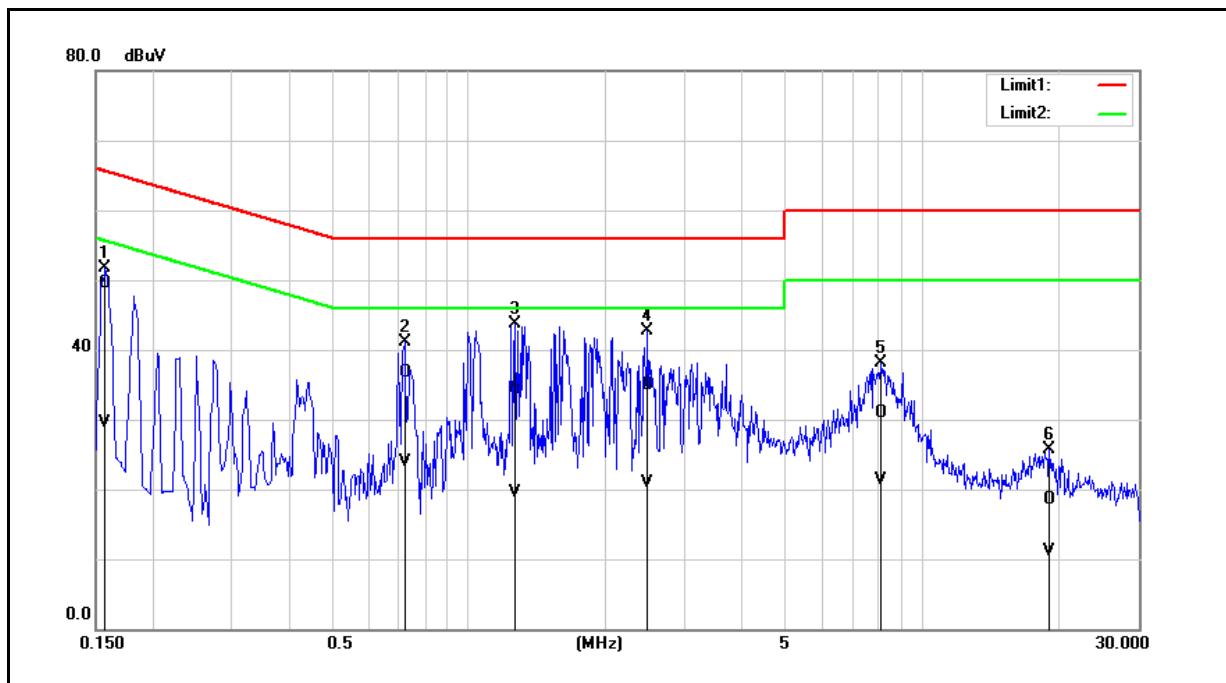


No.	Frequency (MHz)	QP reading (dBuV)	AVG reading (dBuV)	Correction factor (dB)	QP result (dBuV)	AVG result (dBuV)	QP limit (dBuV)	AVG limit (dBuV)	QP margin (dB)	AVG margin (dB)	Remark
1	0.1540	40.81	22.65	9.65	50.46	32.30	65.78	55.78	-15.32	-23.48	Pass
2	0.7220	26.54	13.79	9.67	36.21	23.46	56.00	46.00	-19.79	-22.54	Pass
3	1.0140	29.51	14.90	9.68	39.19	24.58	56.00	46.00	-16.81	-21.42	Pass
4	1.5580	26.07	10.75	9.70	35.77	20.45	56.00	46.00	-20.23	-25.55	Pass
5	1.9140	27.75	16.36	9.72	37.47	26.08	56.00	46.00	-18.53	-19.92	Pass
6	7.9420	19.96	11.37	9.86	29.82	21.23	60.00	50.00	-30.18	-28.77	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 1	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	39.86	19.85	9.65	49.51	29.50	65.57	55.57	-16.06	-26.07	Pass
2	0.7220	27.11	14.32	9.67	36.78	23.99	56.00	46.00	-19.22	-22.01	Pass
3	1.2660	24.63	9.80	9.69	34.32	19.49	56.00	46.00	-21.68	-26.51	Pass
4	2.4860	25.27	11.22	9.73	35.00	20.95	56.00	46.00	-21.00	-25.05	Pass
5	8.1340	21.02	11.52	9.86	30.88	21.38	60.00	50.00	-29.12	-28.62	Pass
6	19.0500	8.46	1.00	10.01	18.47	11.01	60.00	50.00	-41.53	-38.99	Pass

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

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

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:

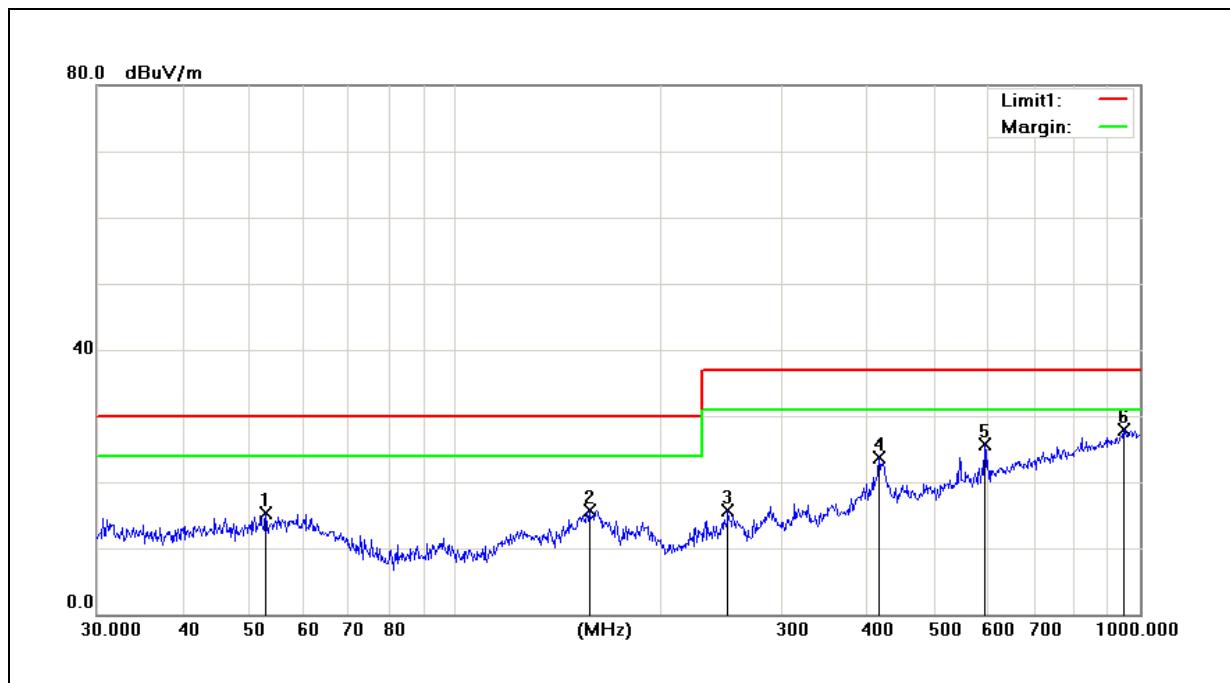
1. The tighter limit shall apply at the edge between two frequency bands.
2. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
3. RF Voltage (dBuV/m) = $20 \log_{10}$ RF Voltage (uV/m)
4. Peak detector limit is 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

■ Test Result

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



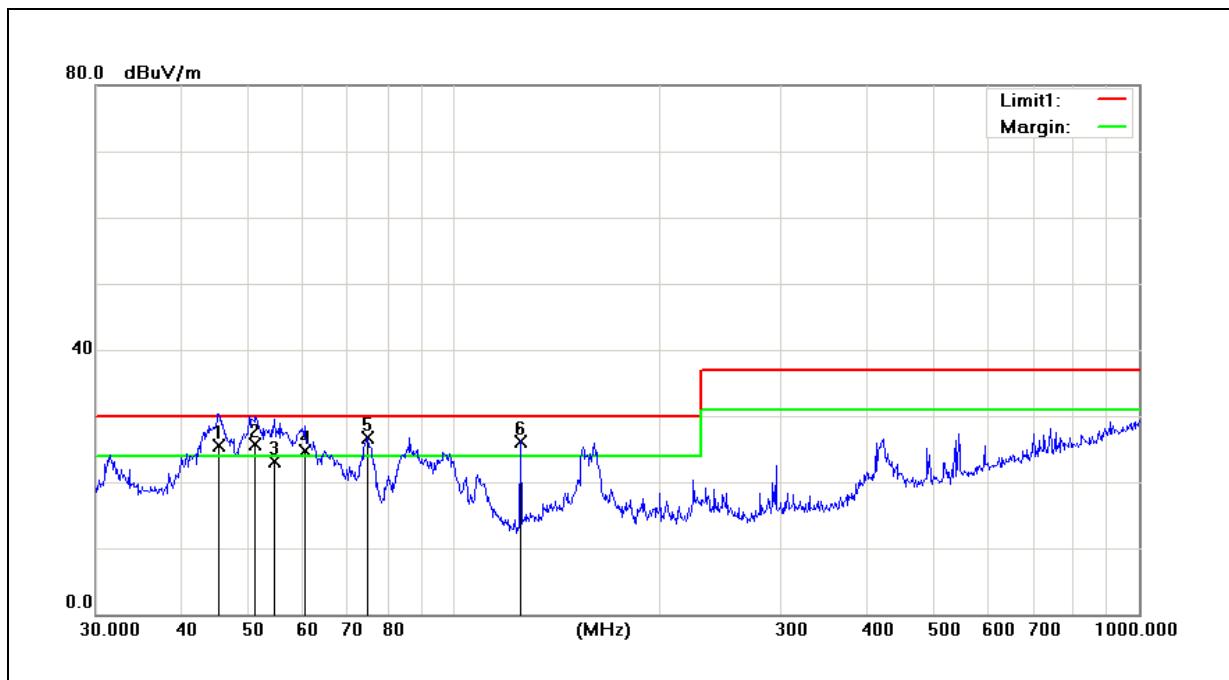
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	52.9453	31.87	-16.57	15.30	30.00	-14.70	385	360	QP
2	157.0074	31.21	-15.51	15.70	30.00	-14.30	300	359	QP
3	250.3012	32.25	-16.55	15.70	37.00	-21.30	400	42	QP
4	416.1791	35.73	-12.03	23.70	37.00	-13.30	100	88	QP
5	593.0497	33.89	-8.19	25.70	37.00	-11.30	100	0	QP
6	945.4400	30.75	-2.85	27.90	37.00	-9.10	200	196	QP

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

Example: $15.30 = -16.57 + 31.87$

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 1	Test Power:	AC 120 V / 60 Hz
Measurement Range:	30 MHz~1 GHz	Ant.Polar.:	Vertical



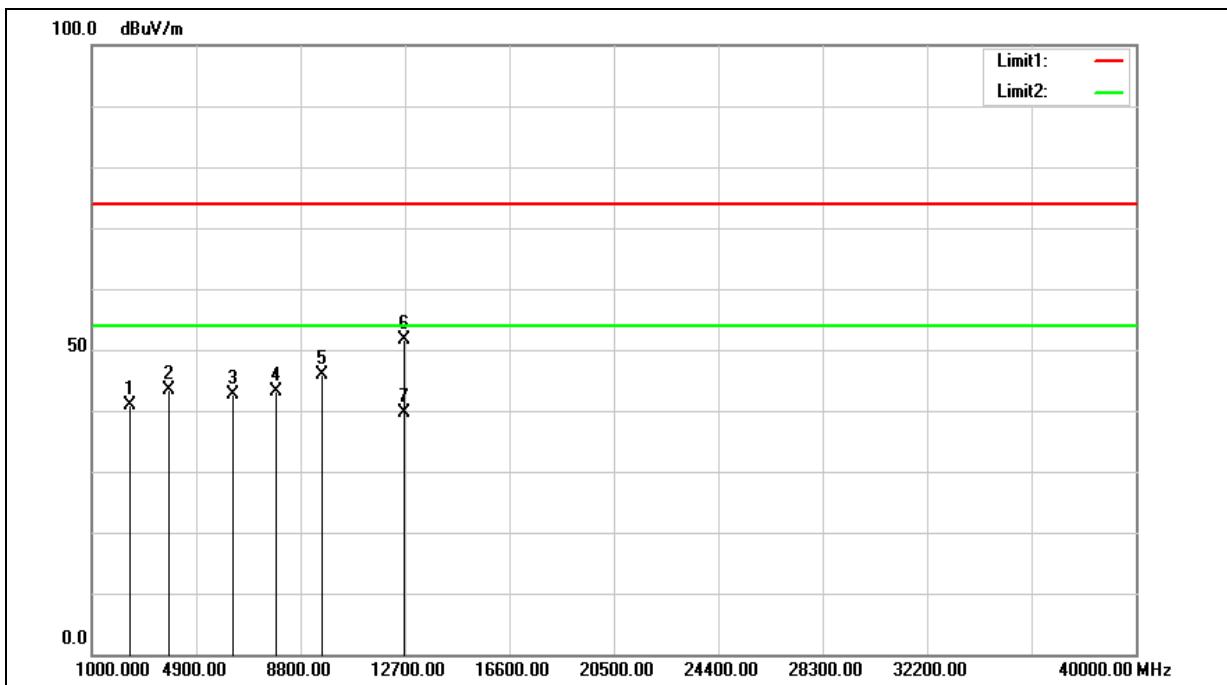
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	45.3755	41.55	-16.05	25.50	30.00	-4.50	100	1	QP
2	51.3005	41.57	-15.77	25.80	30.00	-4.20	100	360	QP
3	54.6430	39.21	-16.01	23.20	30.00	-6.80	100	336	QP
4	60.4920	41.19	-16.39	24.80	30.00	-5.20	300	359	QP
5	74.9191	45.72	-19.02	26.70	30.00	-3.30	100	218	QP
6	125.0066	43.00	-16.80	26.20	30.00	-3.80	100	50	QP

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

Example: $25.50 = -16.05 + 41.55$

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 1	Test Power:	AC 120 V / 60 Hz
Measurement Range:	1 GHz~40 GHz	Ant.Polar.:	Horizontal



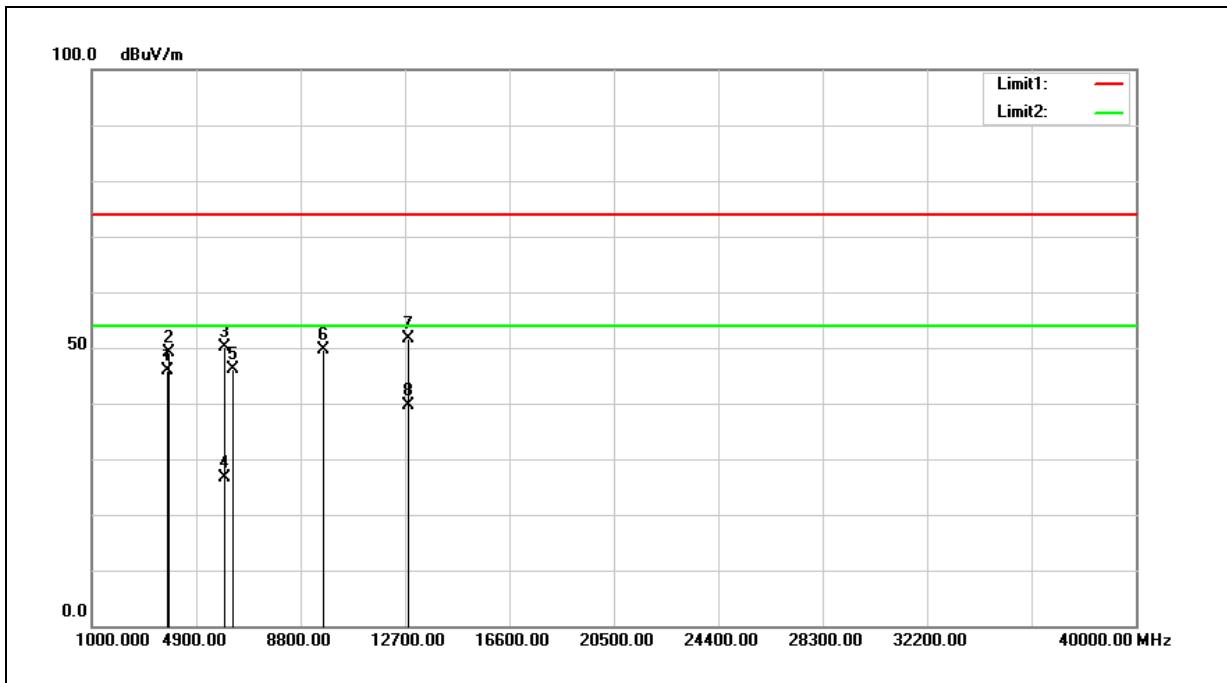
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	2416.000	37.52	3.38	40.90	74.00	-33.10	200	16	peak
2	3856.000	37.31	5.95	43.26	74.00	-30.74	200	299	peak
3	6244.000	33.67	9.02	42.69	74.00	-31.31	200	274	peak
4	7900.000	33.88	9.35	43.23	74.00	-30.77	200	34	peak
5	9580.000	34.88	10.94	45.82	74.00	-28.18	200	128	peak
6	12652.000	32.30	19.45	51.75	74.00	-22.25	100	133	peak
7	12652.000	20.11	19.45	39.56	54.00	-14.44	100	133	AVG

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

Example: $40.90 = 3.38 + 37.52$

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 1	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	3784.000	40.17	5.71	45.88	74.00	-28.12	200	201	peak
2	3856.000	43.23	5.95	49.18	74.00	-24.82	100	345	peak
3	5932.000	41.97	8.27	50.24	74.00	-23.76	100	0	peak
4	5932.000	18.36	8.27	26.63	54.00	-27.37	100	0	AVG
5	6244.000	37.16	9.02	46.18	74.00	-27.82	200	146	peak
6	9652.000	38.55	11.11	49.66	74.00	-24.34	100	0	peak
7	12784.000	32.01	19.67	51.68	74.00	-22.32	200	360	peak
8	12784.000	19.99	19.67	39.66	54.00	-14.34	200	360	AVG

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

Example: $46.58 = -16.49 + 63.07$

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

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