



FCC Part15, Subpart B

TEST REPORT

For

BJ 57IN SNOWMAN WITH SNOWFLAKES

MODEL NUMBER: 266285

FCC ID: 2ATJQ266285

REPORT NUMBER: 4789857896-1

ISSUE DATE: March 24, 2021

Prepared for

**Meizhou Hongfeng Arts And Crafts Co. Ltd
Guanpu Shejiang Town, Meixian, Guangdong, China**

Prepared by

UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch

Building 10, Innovation Technology Park, No. 1, Li Bin Road, Song Shan Lake Hi-Tech Development Zone Dongguan, 523808, People's Republic of China

Tel: +86 769 22038881

Fax: +86 769 33244054

Website: www.ul.com

The results reported herein have been performed in accordance with the laboratory's terms of accreditation. This report shall not be reproduced except in full without the written approval of the Laboratory. The results in this report apply to the test sample(s) mentioned above at the time of the testing period only and are not to be used to indicate applicability to other similar products. This report does not imply that the product(s) has met the criteria for certification.



Revision History

Rev.	Issue Date	Revisions	Revised By
V0	3/24/2021	Initial Issue	



Summary of Test Results				
Standard	Test Item	Limit	Result	Remark
FCC Part15, Subpart B ANSI C63.4-2014	Conducted Disturbance	Class B	PASS	NOTE (2)
	Radiated Disturbance below 1 GHz	Class B	PASS	
	Radiated Disturbance above 1 GHz	Class B	N/A	NOTE (1) NOTE (3)

Note:

(1) "N/A" denotes test is not applicable in this test report.

(2) This test is only applicable for devices which can be charged or powered by AC power cable.

(3) If the highest frequency of the internal sources of the EUT is less than 108 MHz, the measurement shall only be made up to 1 GHz. If the highest frequency of the internal sources of the EUT is between 108 MHz and 500 MHz, the measurement shall only be made up to 2 GHz. If the highest frequency of the internal sources of the EUT is between 500 MHz and 1 GHz, measurement shall only be made up to 5 GHz. If the highest frequency of the internal sources of the EUT is above 1 GHz, the measurement shall be made up to 5 times the highest frequency or 40 GHz, whichever is less.

(4) This test report is only published to and used by the applicant, and it is not for evidence purpose in China.

(5) The measurement result for the sample received is <Pass> according to < FCC Part15, Subpart B > when <Accuracy Method> decision rule is applied.



CONTENTS

1. ATTESTATION OF TEST RESULTS	5
2. TEST METHODOLOGY	6
3. FACILITIES AND ACCREDITATION	6
4. CALIBRATION AND UNCERTAINTY	7
4.1. <i>MEASURING INSTRUMENT CALIBRATION</i>	<i>7</i>
4.2. <i>MEASUREMENT UNCERTAINTY</i>	<i>7</i>
5. EQUIPMENT UNDER TEST	8
5.1. <i>DESCRIPTION OF EUT</i>	<i>8</i>
5.2. <i>TEST MODE</i>	<i>8</i>
5.3. <i>EUT ACCESSORY</i>	<i>8</i>
5.4. <i>SUPPORT UNITS FOR SYSTEM TEST</i>	<i>8</i>
6. MEASURING EQUIPMENT AND SOFTWARE USED	9
7. EMISSION TEST	10
7.1. <i>CONDUCTED EMISSIONS MEASUREMENT</i>	<i>10</i>
7.2. <i>RADIATED EMISSIONS MEASUREMENT</i>	<i>14</i>



1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: Meizhou Hongfeng Arts And Crafts Co. Ltd
Address: Guanpu Shejiang Town, Meixian, Guangdong, China

Manufacturer Information

Company Name: Meizhou Hongfeng Arts And Crafts Co. Ltd
Address: Guanpu Shejiang Town, Meixian, Guangdong, China

EUT Information

EUT Name: BJ 57IN SNOWMAN WITH SNOWFLAKES
Serial Model: 266285
Brand: /
Sample Received Date: March 16, 2021
Sample Status: Normal
Sample ID: 3713516
Date of Tested: March 16, 2021 ~ March 23, 2021

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC Part15, Subpart B	PASS

Prepared By:

Checked By:

Gary Zhang
Project Engineer

Shawn Wen
Laboratory Leader

Approved By:

Stephen Guo
Laboratory Manager



2. TEST METHODOLOGY

All tests were performed in accordance with the standard FCC Part15 Subpart B & ANSI C63.4-2014.

3. FACILITIES AND ACCREDITATION

Accreditation Certificate	<p>A2LA (Certificate No.: 4102.01) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with A2LA.</p> <p>FCC (FCC Recognized No.: CN1187) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. Has been recognized to perform compliance testing on equipment subject to the Commission's Declaration of Conformity (DoC) and Certification rules</p> <p>IC (Company No.: 21320) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been registered and fully described in a report filed with Industry Canada. The Company Number is 21320.</p> <p>VCCI (Registration No.: G-20019, R-20004, C-20012 and T-20011) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with VCCI, the Membership No. is 3793. Facility Name: Chamber D, the VCCI registration No. is G-20019 and R-20004 Shielding Room B , the VCCI registration No. is C-20012 and T-20011</p>
---------------------------	---

Note: All tests measurement facilities use to collect the measurement data are located at Building 10, Innovation Technology Park, No. 1, Li Bin Road, Song Shan Lake Hi-Tech Development Zone Dongguan, 523808, People’s Republic of China

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations and is traceable to recognized national standards.

4.2. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Test Item	Measurement Frequency Range	K	U(dB)
Conducted emissions from the AC mains power ports	0.15MHz ~ 30MHz	2	3.62
Radiated emissions	30MHz ~ 1GHz	2	4.00

Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.



5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

EUT Name	BJ 57IN SNOWMAN WITH SNOWFLAKES
Model	266285
Power supply	AC 120V ~ 60Hz, 0.20A
Max. Operating Frequency	32.768 kHz

5.2. TEST MODE

Test Mode	Description
Mode 1	Running
Mode 2	Standby

5.3. EUT ACCESSORY

Item	Accessory	Brand Name	Model Name	Description
/	/	/	/	/

5.4. SUPPORT UNITS FOR SYSTEM TEST

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Specification	Series No.	Note
/	/	/	/	/	/	

The following cables were used to form a representative test configuration during the tests.

Item	Type of cable	Shielded Type	Ferrite Core	Length
/	/	/	/	/



6. MEASURING EQUIPMENT AND SOFTWARE USED

Conducted Emissions					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
EMI Test Receiver	R&S	ESR3	101961	Nov. 12, 2020	Nov. 11, 2021
Two-Line V-Network	R&S	ENV216	101983	Nov. 12, 2020	Nov. 11, 2021
Software					
Description		Manufacturer	Name	Version	
Test Software for Conducted Emissions		Farad	EZ-EMC	Ver. UL-3A1	
Radiated Emissions					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
MXE EMI Receiver	KESIGHT	N9038A	MY56400036	Nov. 12, 2020	Nov. 11, 2021
Hybrid Log Periodic Antenna	TDK	HLP-3003C	130959	Sept. 17, 2018	Sept. 17, 2021
Preamplifier	HP	8447D	2944A09099	Nov. 12, 2020	Nov. 11, 2021
Software					
Description		Manufacturer	Name	Version	
Test Software for Radiated Emissions		Farad	EZ-EMC	Ver. UL-3A1	

7. EMISSION TEST

7.1. CONDUCTED EMISSIONS MEASUREMENT

LIMITS

CFR 47 FCC Part15 Subpart B				
FREQUENCY (MHz)	Class A (dB μ V)		Class B (dB μ V)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46*
0.50 -5.0	73.00	60.00	56.00	46.00
5.0 -30.0	73.00	60.00	60.00	50.00

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

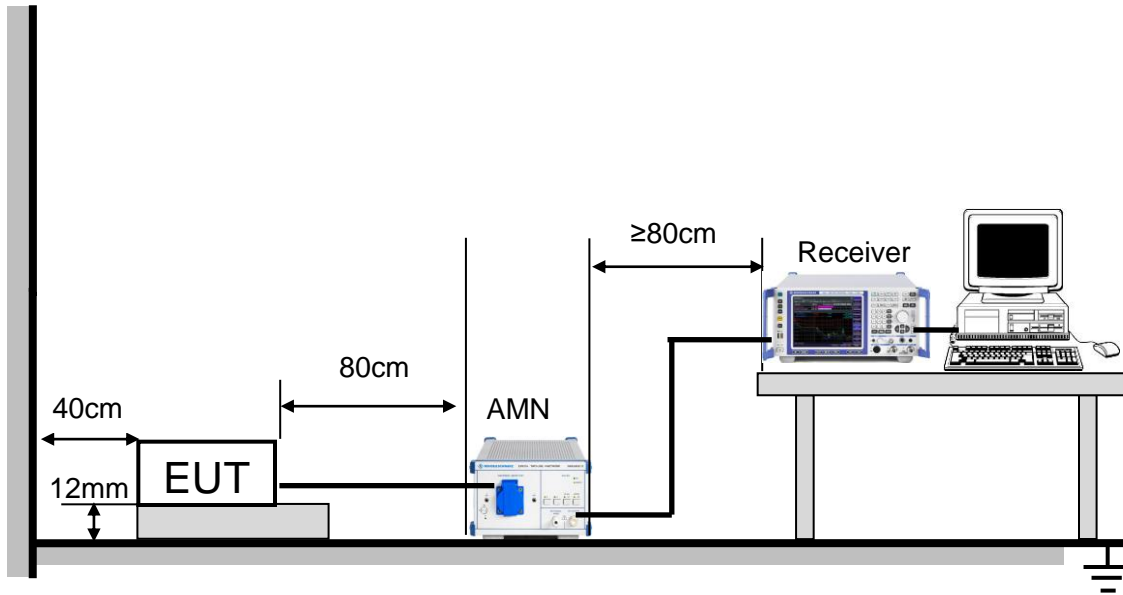
The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

TEST PROCEDURE

1. The testing follows the guidelines in ANSI C63.4-2014.
2. The EUT was placed on a 12mm insulating material from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipment powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
3. Excess I/O cables shall be bundled in the center. If bundling is not possible, the cables shall be arranged in a serpentine fashion. Bundling shall not exceed 40 cm in length.
4. Excess power cords shall be bundled in the center or shortened to appropriate length.
5. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. If bundling is not possible, the cables shall be arranged in a serpentine fashion.
6. LISN at least 80 cm from nearest part of EUT.
7. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-Peak and average detector mode.

TEST SETUP



For the actual test configuration, please refer to Appendix I: Photographs of Test Configuration.

TEST ENVIRONMENT

Temperature	22.1 °C	Relative Humidity	72.1 %
Atmosphere Pressure	101 kPa		

TEST MODE

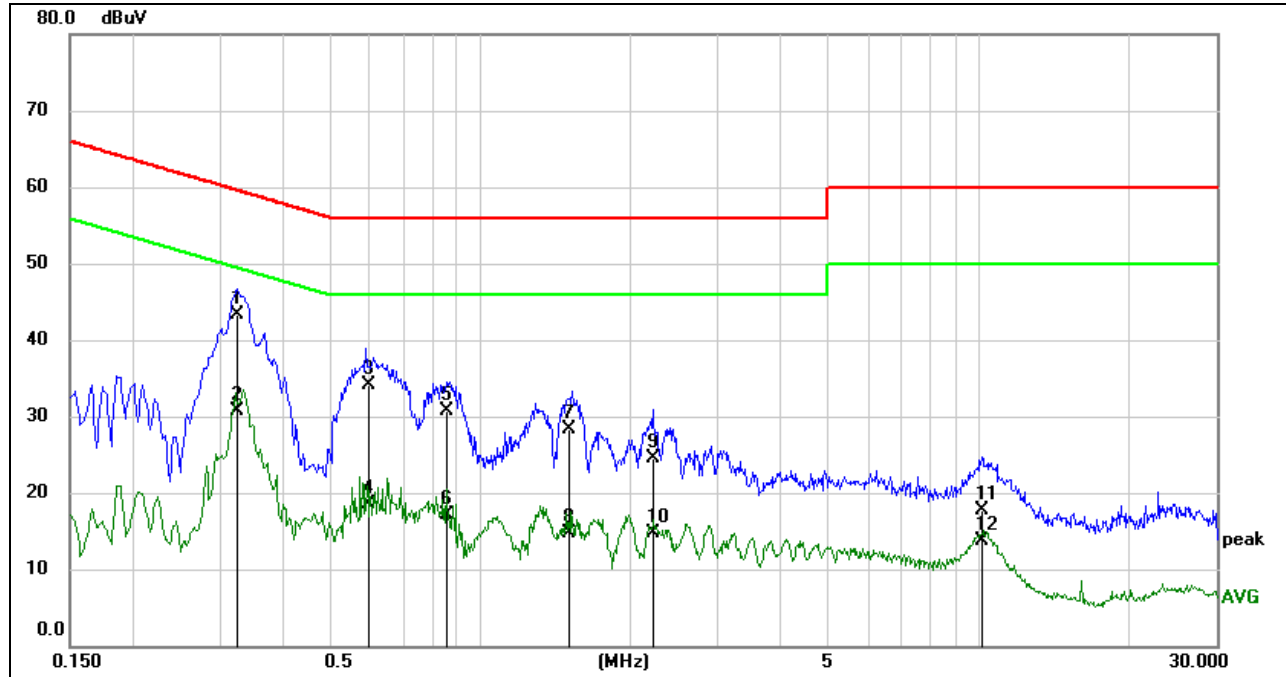
Pre-test Mode:	Mode 1 & Mode 2
Final Test Mode:	Mode 1

Note: All test modes had been tested, but only the worst data recorded in the report.



TEST RESULTS

Conducted Emissions			
Test Mode:	Mode 1	Phase:	Line
Test Voltage	AC 120 V/60 Hz		

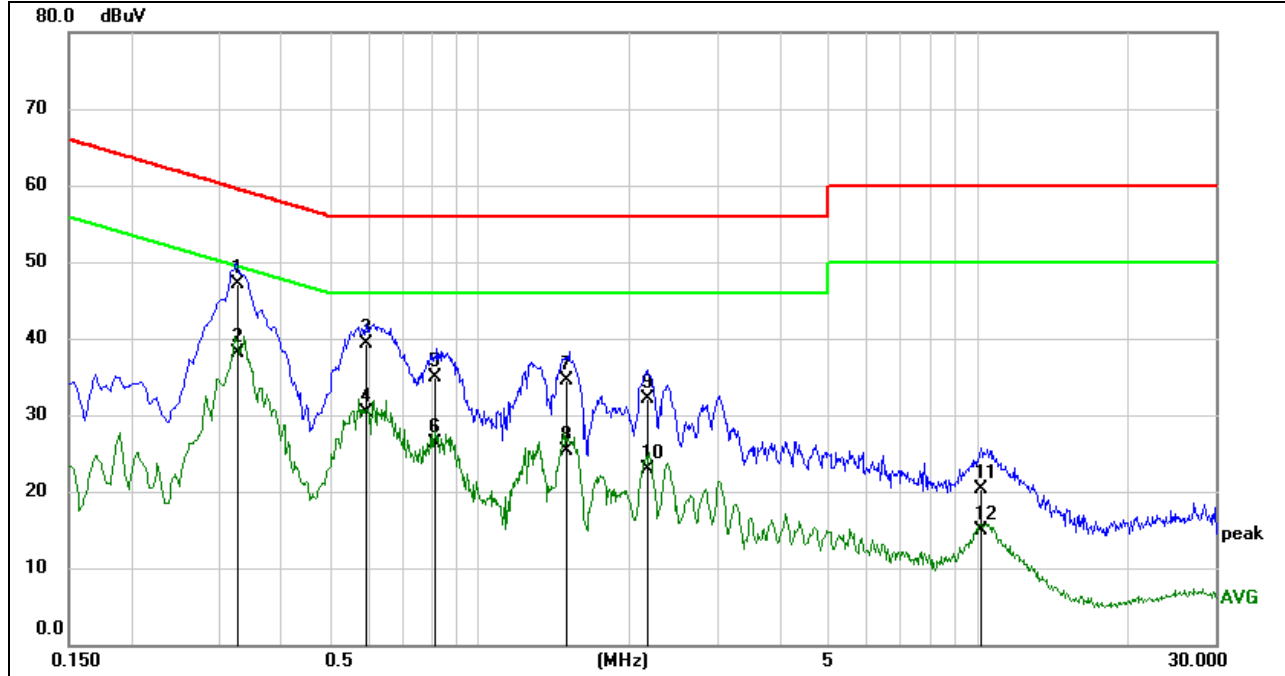


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.3260	33.68	9.59	43.27	59.55	-16.28	QP
2	0.3260	21.15	9.59	30.74	49.55	-18.81	AVG
3	0.5949	24.54	9.60	34.14	56.00	-21.86	QP
4	0.5949	8.98	9.60	18.58	46.00	-27.42	AVG
5	0.8507	21.19	9.60	30.79	56.00	-25.21	QP
6	0.8507	7.58	9.60	17.18	46.00	-28.82	AVG
7	1.5031	18.69	9.62	28.31	56.00	-27.69	QP
8	1.5031	5.11	9.62	14.73	46.00	-31.27	AVG
9	2.2163	14.91	9.63	24.54	56.00	-31.46	QP
10	2.2163	5.04	9.63	14.67	46.00	-31.33	AVG
11	10.1676	8.03	9.62	17.65	60.00	-42.35	QP
12	10.1676	4.09	9.62	13.71	50.00	-36.29	AVG

Note: 1. Result = Reading +Correct (Insertion Loss + Cable Loss + Attenuator Factor)
2. Margin = Result - Limit



Conducted Emissions			
Test Mode:	Mode 1	Phase:	Neutral
Test Voltage	AC 120 V/60 Hz		



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.3268	37.52	9.59	47.11	59.53	-12.42	QP
2	0.3268	28.46	9.59	38.05	49.53	-11.48	AVG
3	0.5926	29.62	9.60	39.22	56.00	-16.78	QP
4	0.5926	20.66	9.60	30.26	46.00	-15.74	AVG
5	0.8149	25.39	9.60	34.99	56.00	-21.01	QP
6	0.8149	16.76	9.60	26.36	46.00	-19.64	AVG
7	1.5016	24.96	9.62	34.58	56.00	-21.42	QP
8	1.5016	15.61	9.62	25.23	46.00	-20.77	AVG
9	2.1789	22.48	9.63	32.11	56.00	-23.89	QP
10	2.1789	13.35	9.63	22.98	46.00	-23.02	AVG
11	10.1854	10.77	9.62	20.39	60.00	-39.61	QP
12	10.1854	5.25	9.62	14.87	50.00	-35.13	AVG

Note: 1. Result = Reading +Correct (Insertion Loss + Cable Loss + Attenuator Factor)
 2. Margin = Result - Limit



7.2. RADIATED EMISSIONS MEASUREMENT

LIMITS

Below 1 GHz

CFR 47 FCC Part15 Subpart B			
Frequency (MHz)	Class A		Class B
	Field strength (uV/m) (at 10m)	Field strength (dBuV/m) (at 3m)	Field strength (dBuV/m) (at 3m)
30 - 88	90	49.5	40
88 - 216	150	53.9	43.5
216 - 960	210	56.9	46
Above 960	300	60	54

Above 1 GHz

CFR 47 FCC Part15 Subpart B						
Frequency (MHz)	Class A				Class B	
	(dBuV/m) (at 3m)		(dBuV/m) (at 10m)		(dBuV/m) (at 3m)	
	Peak	Average	Peak	Average	Peak	Average
Above 1000	80	60	69.5	49.5	74	54

Test Frequency Range of Radiated Disturbance Measurement

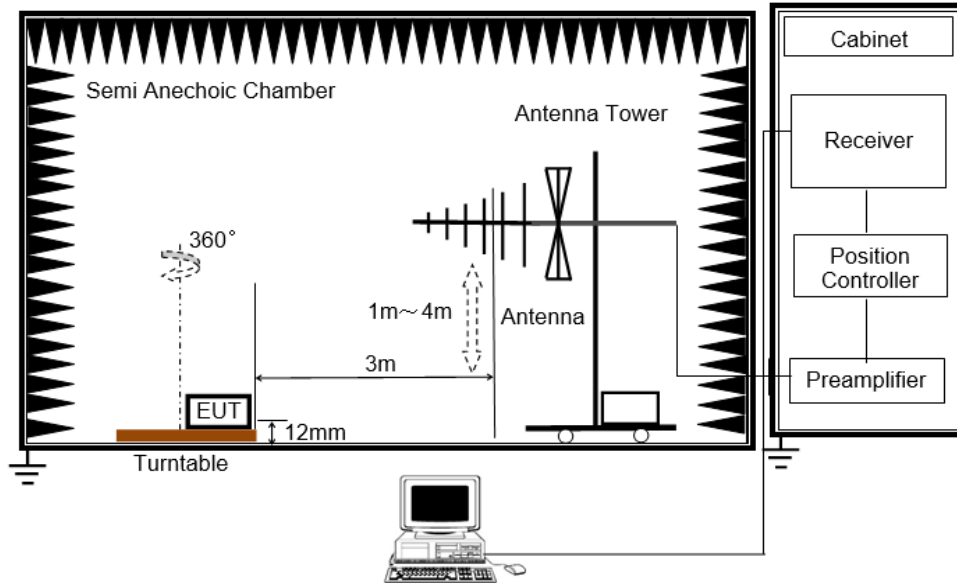
Highest frequency generated or Upper frequency of measurement used in the device or on which the device operates or tunes (MHz)	Range (MHz)
Below 1.705	30
1.705 - 108	1000
108 - 500	2000
500 - 1000	5000
Above 1000	5 th harmonic of the highest frequency or 40 GHz, whichever is lower

NOTE:

- (1) The limit for radiated test was performed according to FCC Part 15, Subpart B;
- (2) The tighter limit applies at the band edges;
- (3) Emission level (dBuV/m) = 20log Emission level (uV/m),
3m Emission level = 10m Emission level + 20log(10m/3m);

TEST SETUP AND PROCEDURE

Below 1G and above 30MHz

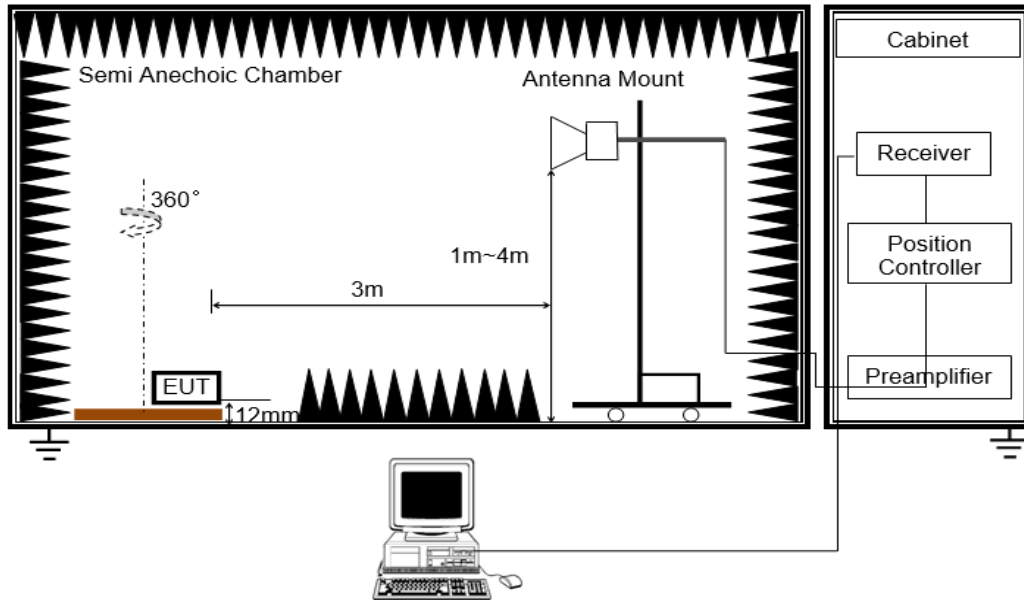


The setting of the spectrum analyser

RBW	120K
VBW	300K
Sweep	Auto
Detector	Peak and QP
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.4-2014.
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp was used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
3. Excess I/O cables shall be bundled in the center. If bundling is not possible, the cables shall be arranged in a serpentine fashion. Bundling shall not exceed 40 cm in length.
4. Excess power cords shall be bundled in the center or shortened to appropriate length.
5. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. If bundling is not possible, the cables shall be arranged in a serpentine fashion.
6. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
7. The EUT and all cables shall be insulated, if required, from the ground plane by up to 12mm of insulating material.
8. For measurement below 1GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.

Above 1G



The setting of the spectrum analyser

RBW	1M
VBW	3M
Sweep	Auto
Detector	Peak: Peak AVG: RMS
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.4-2014.
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
3. Excess I/O cables shall be bundled in the center. If bundling is not possible, the cables shall be arranged in a serpentine fashion. Bundling shall not exceed 40 cm in length.
4. Excess power cords shall be bundled in the center or shortened to appropriate length.
5. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. If bundling is not possible, the cables shall be arranged in a serpentine fashion.
6. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
7. The EUT and all cables shall be insulated, if required, from the ground plane by up to 12mm of insulating material.
8. For measurement above 1GHz, the peak emission measurement will be measured by the peak detector. This peak level, once corrected, must comply with the peak limit specified in Section 15.109. If peak result complies with average limit, average result is deemed to comply with average limit.
9. The average emission measurement will be measured by the RMS detector and must comply with the average limit specified in Section 15.109.

**TEST ENVIRONMENT**

Radiated Emissions - Below 1 GHz		Radiated Emissions - Above 1 GHz	
Temperature:	24.6 °C	Temperature:	N/A
Humidity:	65 %	Humidity:	N/A
Atmosphere Pressure	101 kPa	Atmosphere Pressure	N/A

TEST MODE

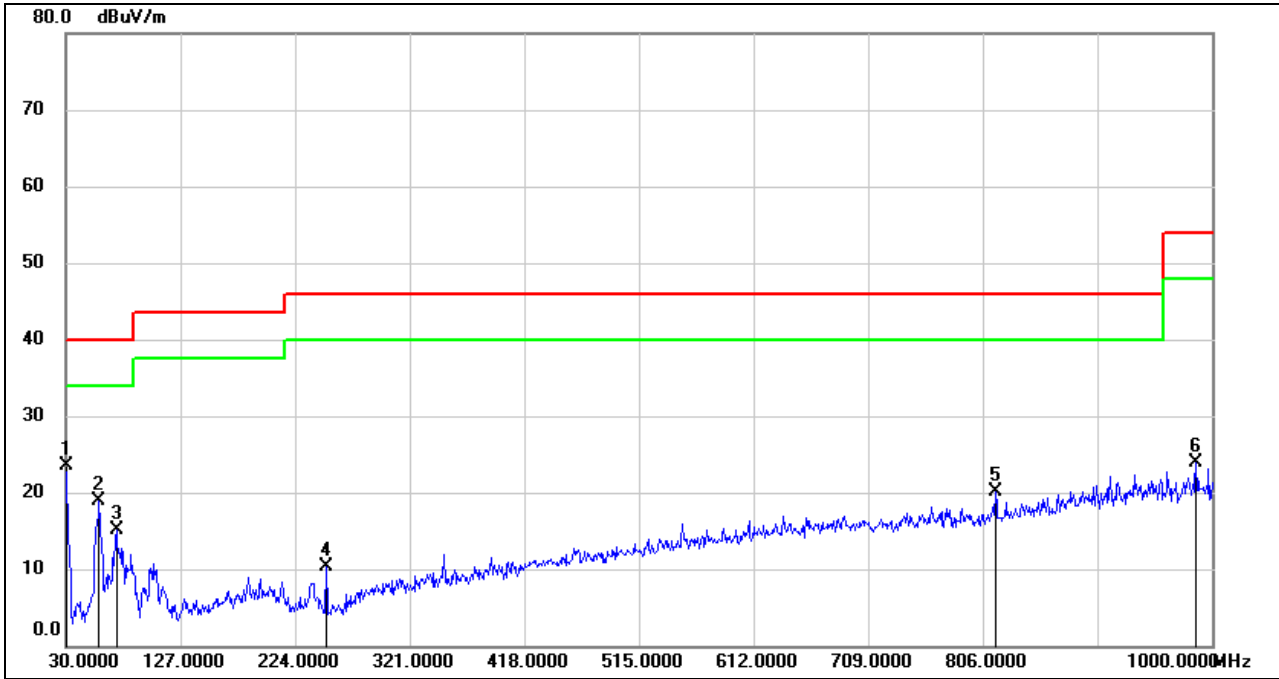
Radiated Emissions - Below 1 GHz		Radiated Emissions - Above 1 GHz	
Pre-test Mode:	Mode 1 & Mode 2	Pre-test Mode:	N/A
Final Test Mode:	Mode 1	Final Test Mode:	N/A

Note: All test modes had been tested, but only the worst data recorded in the report.



TEST RESULTS

Radiated Emissions – Below 1 GHz			
Measurement Method	Radiated	Polar:	Horizontal
Test Mode:	Mode 1	Test Voltage:	AC 120 V/60 Hz

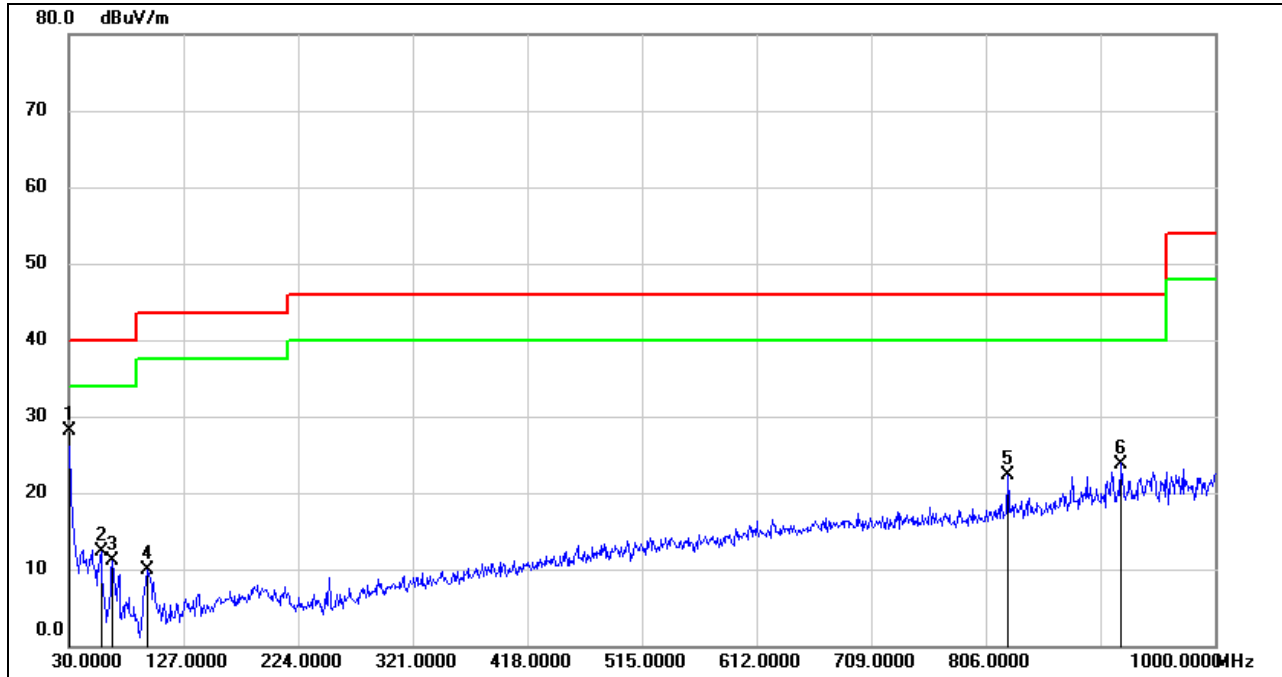


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	30.0000	42.48	-18.94	23.54	40.00	-16.46	QP
2	58.1300	39.55	-20.55	19.00	40.00	-21.00	QP
3	72.6800	35.90	-20.76	15.14	40.00	-24.86	QP
4	250.1900	29.16	-18.91	10.25	46.00	-35.75	QP
5	816.6700	27.07	-6.98	20.09	46.00	-25.91	QP
6	986.4200	28.14	-4.30	23.84	54.00	-30.16	QP

Note: 1. Reading +Correct (Amplifier Factor + Cable Loss + Antenna Factor)
2. Margin = Result - Limit



Radiated Emissions – Below 1 GHz			
Measurement Method	Radiated	Polar:	Vertical
Test Mode:	Mode 1	Test Voltage:	AC 120 V/60 Hz



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	30.0000	47.10	-18.94	28.16	40.00	-11.84	QP
2	57.1600	32.94	-20.58	12.36	40.00	-27.64	QP
3	66.8600	31.75	-20.56	11.19	40.00	-28.81	QP
4	96.9300	31.33	-21.38	9.95	43.50	-33.55	QP
5	824.4300	29.18	-6.80	22.38	46.00	-23.62	QP
6	920.4600	28.56	-4.76	23.80	46.00	-22.20	QP

Note: 1. Reading +Correct (Amplifier Factor + Cable Loss + Antenna Factor)
 2. Margin = Result - Limit

END OF REPORT