



FCC SDoC TEST REPORT

Zhenjiang Electronics (Shenzhen) Co., LTD.

Cord Extension Set

Test Model: B6-1

Prepared for : Zhenjiang Electronics (Shenzhen) Co., LTD.
Address : 401, Building 2, No. 39, Hengling North Road, Nianfeng
Community, Pingdi Street, Longgang District, Shenzhen
China

Prepared by : Shenzhen LCS Compliance Testing Laboratory Ltd.
Address : Room 101, 201, Building A and Room 301, Building C,
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Date of receipt of test sample : February 15, 2022
Number of tested samples : 1
Sample number : 220118137A
Serial number : Prototype
Date of Test : February 15, 2022 ~ February 23, 2022
Date of Report : February 24, 2022





FCC SDoC TEST REPORT
FCC 47 CFR Part 15 Subpart B, Class B(SDoC), ANSI C63.4 -2014

Report Reference No. : **LCS220118137AEA**

Date Of Issue..... : February 24, 2022

Testing Laboratory Name..... : **Shenzhen LCS Compliance Testing Laboratory Ltd.**

Address..... : Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China

Testing Location/ Procedure.... : Full application of Harmonised standards
Partial application of Harmonised standards
Other standard testing method

Applicant's Name..... : **Zhenjiang Electronics (Shenzhen) Co., LTD.**

Address..... : 401, Building 2, No. 39, Hengling North Road, Nianfeng Community, Pingdi Street, Longgang District, Shenzhen China

Test Specification

Standard..... : FCC 47 CFR Part 15 Subpart B, Class B(SDoC), ANSI C63.4 -2014

Test Report Form No..... : LCSEMC-1.0

TRF Originator..... : Shenzhen LCS Compliance Testing Laboratory Ltd.

Master TRF..... : Dated 2011-03

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Test Item Description..... : **Cord Extension Set**

Test Model : B6-1

Trade Mark..... : N/A

Ratings..... : Input: AC 100-125V, 60Hz, 15A Max
Output: DC 5V, 2.4A, Max 12W

Result : **Positive**

Compiled by:

Supervised by:

Approved by:

Kevin Huang/ Administrator

Jin Wang/ Technique principal

Gavin Liang/ Manager



FCC SDOC-- TEST REPORT

Test Report No. : LCS220118137AEA	<u>February 24, 2022</u> Date of issue
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Test Model	: B6-1
EUT.....	: Cord Extension Set
Applicant.....	: Zhenjiang Electronics (Shenzhen) Co., LTD.
Address.....	: 401, Building 2, No. 39, Hengling North Road, Nianfeng Community, Pingdi Street, Longgang District, Shenzhen China
Telephone.....	: /
Fax.....	: /
Manufacturer.....	: Zhenjiang Electronics (Shenzhen) Co., LTD.
Address.....	: 401, Building 2, No. 39, Hengling North Road, Nianfeng Community, Pingdi Street, Longgang District, Shenzhen China
Telephone.....	: /
Fax.....	: /
Factory.....	: Zhenjiang Electronics (Shenzhen) Co., LTD.
Address.....	: 401, Building 2, No. 39, Hengling North Road, Nianfeng Community, Pingdi Street, Longgang District, Shenzhen China
Telephone.....	: /
Fax.....	: /

Test Result according to the standards on page 6: **Positive**

The test report merely corresponds to the test sample.
It is not permitted to copy extracts of these test result without the written permission of the test laboratory.



Revision History

Revision	Issue Date	Revisions	Revised By
000	February 24, 2022	Initial Issue	Gavin Liang



TABLE OF CONTENTS

Test Report Description	Page
1. SUMMARY OF STANDARDS AND RESULTS.....	6
1.1. Description of Standards and Results.....	6
2. GENERAL INFORMATION.....	7
2.1. Description of Device (EUT).....	7
2.2. Support Equipment List.....	8
2.3 External I/O Cable.....	8
2.4. Description of Test Facility.....	8
2.4. Statement of the Measurement Uncertainty.....	9
2.5. Measurement Uncertainty.....	9
3. TEST RESULTS.....	10
3.1. POWER LINE CONDUCTED EMISSION MEASUREMENT.....	10
3.2. Radiated emission Measurement.....	14
4. TEST SETUP PHOTOGRAPHS OF EUT.....	21
5. EXTERIOR PHOTOGRAPHS OF THE EUT.....	21
6. INTERIOR PHOTOGRAPHS OF THE EUT.....	21



1. SUMMARY OF STANDARDS AND RESULTS

1.1. Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below.

EMISSION			
Description of Test Item	Standard	Limits	Results
Conducted disturbance at mains terminals	FCC 47 CFR Part 15 Subpart B, Class B(SDoC), ANSI C63.4 -2014	Class B	PASS
Radiated disturbance	FCC 47 CFR Part 15 Subpart B, Class B(SDoC), ANSI C63.4 -2014	Class B	PASS

N/A is an abbreviation for Not Applicable.

Test mode:		
Mode 1	Operate in USB mode	Record



2. GENERAL INFORMATION

2.1. Description of Device (EUT)

EUT	: Cord Extension Set
Trade Mark	: N/A
Test Model	: B6-1
Power Supply	: Input: AC 100-125V, 60Hz, 15A Max Output: DC 5V, 2.4A, Max 12W
Highest internal frequency (F _x)	: F _x > 1 GHz

Highest internal frequency (F _x)	Highest measured frequency
F _x ≤ 108 MHz	1 GHz
108 MHz < F _x ≤ 500 MHz	2 GHz
500 MHz < F _x ≤ 1 GHz	5 GHz
F _x > 1 GHz	5 × F _x up to a maximum of 6 GHz

NOTE 1 For FM and TV broadcast receivers, F_x is determined from the highest frequency generated or used excluding the local oscillator and tuned frequencies.
Where F_x is unknown, the radiated emission measurements shall be performed up to 6 GHz.



2.2. Support Equipment List

Manufacturer	Description	Model	Serial Number	Certificate
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2.3 External I/O Cable

I/O Port Description	Quantity	Cable
USB Port	3	N/A

2.4. Description of Test Facility

Site Description

EMC Lab. : NVLAP Accreditation Code is 600167-0.
FCC Designation Number is CN5024.
CAB identifier is CN0071.
CNAS Registration Number is L4595.
Test Firm Registration Number: 254912



2.4. Statement of the Measurement Uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. To CISPR 16 – 4 “Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements” and is documented in the LCS quality system acc. To DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

2.5. Measurement Uncertainty

Test	Parameters	Expanded Uncertainty (U _{lab})	Expanded Uncertainty (U _{cispr})
Conducted Emission	Level accuracy (9kHz to 150kHz) (150kHz to 30MHz)	± 2.63 dB ± 2.35 dB	± 3.8 dB ± 3.4 dB
Radiated Emission	Level accuracy (9kHz to 30MHz)	± 3.68 dB	N/A
Radiated Emission	Level accuracy (30MHz to 1000MHz)	± 3.48 dB	± 5.3 dB
Radiated Emission	Level accuracy (above 1000MHz)	± 3.90 dB	± 5.2 dB

(1) Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus.

(2) The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor of $k=2$, which for a normal distribution corresponds to a coverage probability of approximately 95%.

3. TEST RESULTS

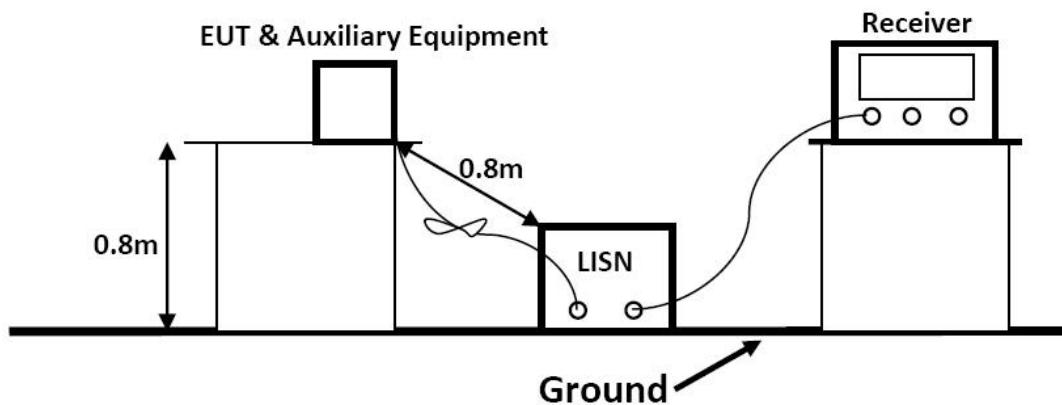
3.1. POWER LINE CONDUCTED EMISSION MEASUREMENT

3.1.1. Test Equipment

The following test equipments are used during the power line conducted measurement:

Item	Equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	EMI Test Software	AUDIX	E3	/	N/A	N/A
2	EMI Test Receiver	R&S	ESR3	102311	2021-03-16	2022-03-15
3	Artificial Mains	R&S	ENV216	101288	2021-06-21	2022-06-20
4	10dB Attenuator	SCHWARZBECK	MTS-IMP-136	261115-001-0032	2021-06-21	2022-06-20
5	Impedance Stabilization Network	TESEQ	ISN T800	45130	2021-12-01	2022-11-30

3.1.2. Block Diagram of Test Setup



3.1.3. Test Standard

Power Line Conducted Emission Limits (Class B)

Frequency (MHz)			Limit (dB μ V)	
			Quasi-peak Level	Average Level
0.15	~	0.50	66.0 ~ 56.0 *	56.0 ~ 46.0 *
0.50	~	5.00	56.0	46.0
5.00	~	30.00	60.0	50.0

NOTE1-The lower limit shall apply at the transition frequencies.

NOTE2-The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.50MHz.

3.1.4. EUT Configuration on Test

The following equipments are installed on Power Line Conducted Emission Measurement to meet the commission requirement and operating regulations in a manner, which tends to maximize its emission characteristics in a normal application.



3.1.5. Operating Condition of EUT

3.1.5.1. Setup the EUT as shown on Section 3.1.2

3.1.5.2. Turn on the power of all equipments.

3.1.5.3. Let the EUT work in measuring Mode 1 and measure it.

3.1.6. Test Procedure

The EUT system is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to FCC/ANSI C63.4-2014 on Conducted Emission Measurement.

The bandwidth of the test receiver is set at 9kHz.

The frequency range from 150kHz to 30MHz is investigated

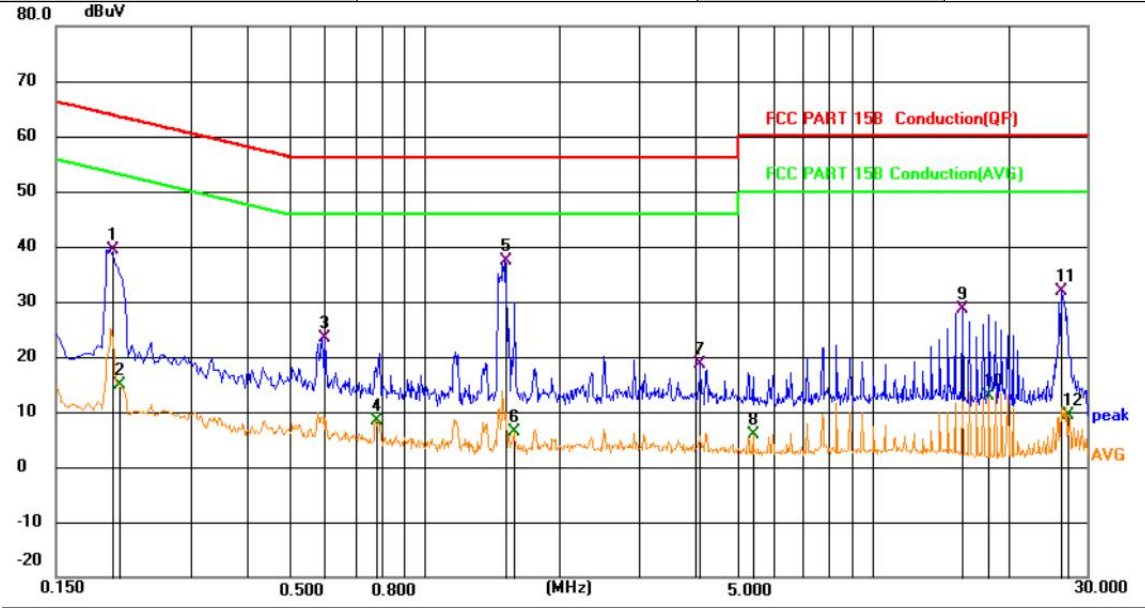
3.1.7. Test Results

PASS.

The test result please refer to the next page.



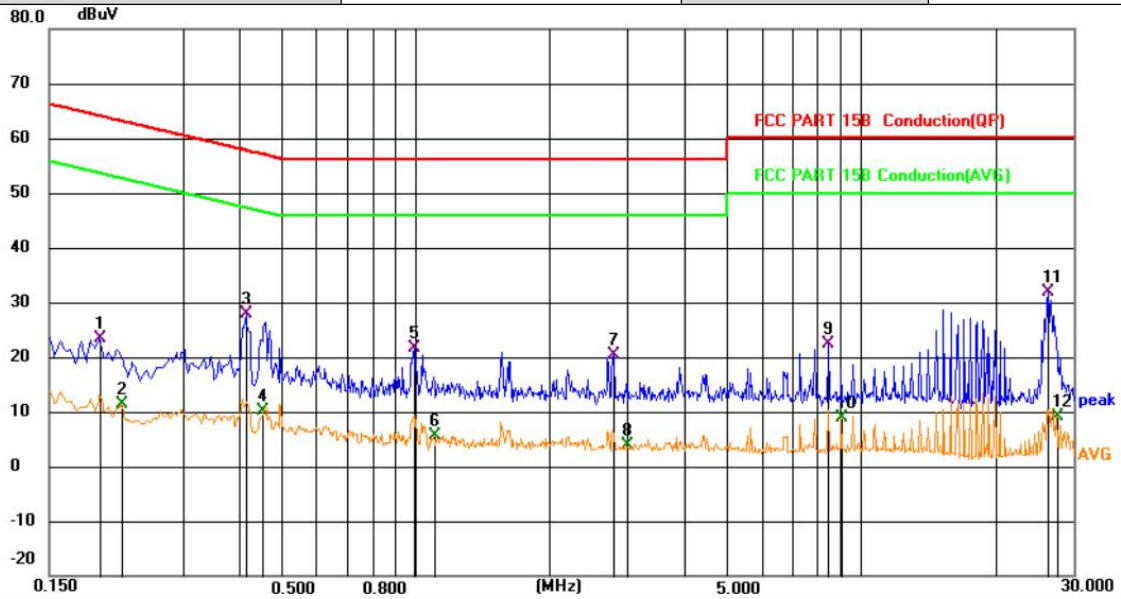
Test Model	B6-1	Test Mode	Mode 1
Environmental Conditions	22.5°C, 53.7% RH	Test Engineer	Bill Zhu
Pol	Line	Test Voltage	AC 120V/60Hz



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1996	29.53	9.89	39.42	63.63	-24.21	QP	
2		0.2072	4.97	9.89	14.86	53.32	-38.46	AVG	
3		0.6000	13.55	9.93	23.48	56.00	-32.52	QP	
4		0.7755	-1.54	9.92	8.38	46.00	-37.62	AVG	
5	*	1.5090	27.30	9.96	37.26	56.00	-18.74	QP	
6		1.5809	-3.65	9.96	6.31	46.00	-39.69	AVG	
7		4.1146	8.72	10.01	18.73	56.00	-37.27	QP	
8		5.4150	-4.19	10.03	5.84	50.00	-44.16	AVG	
9		15.8551	17.97	10.62	28.59	60.00	-31.41	QP	
10		18.2131	1.92	10.92	12.84	50.00	-37.16	AVG	
11		26.3806	21.31	10.49	31.80	60.00	-28.20	QP	
12		27.1546	-1.17	10.45	9.28	50.00	-40.72	AVG	peak



Test Model	B6-1	Test Mode	Mode 1
Environmental Conditions	22.5°C, 53.7% RH	Test Engineer	Bill Zhu
Pol	Neutral	Test Voltage	AC 120V/60Hz



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1951	13.54	9.89	23.43	63.82	-40.39	QP	
2		0.2176	1.58	9.89	11.47	52.91	-41.44	AVG	
3		0.4156	17.89	9.90	27.79	57.54	-29.75	QP	
4		0.4561	0.14	9.90	10.04	46.76	-36.72	AVG	
5		0.9915	11.65	9.92	21.57	56.00	-34.43	QP	
6		1.0950	-4.22	9.92	5.70	46.00	-40.30	AVG	
7		2.7871	10.36	9.98	20.34	56.00	-35.66	QP	
8		2.9671	-5.99	9.98	3.99	46.00	-42.01	AVG	
9		8.4571	12.28	10.11	22.39	60.00	-37.61	QP	
10		9.0376	-1.21	10.12	8.91	50.00	-41.09	AVG	
11	*	26.2951	21.40	10.42	31.82	60.00	-28.18	QP	
12		27.4516	-1.35	10.41	9.06	50.00	-40.94	AVG	

Note: Pre-Scan all mode, Thus record worse case mode result in this report.

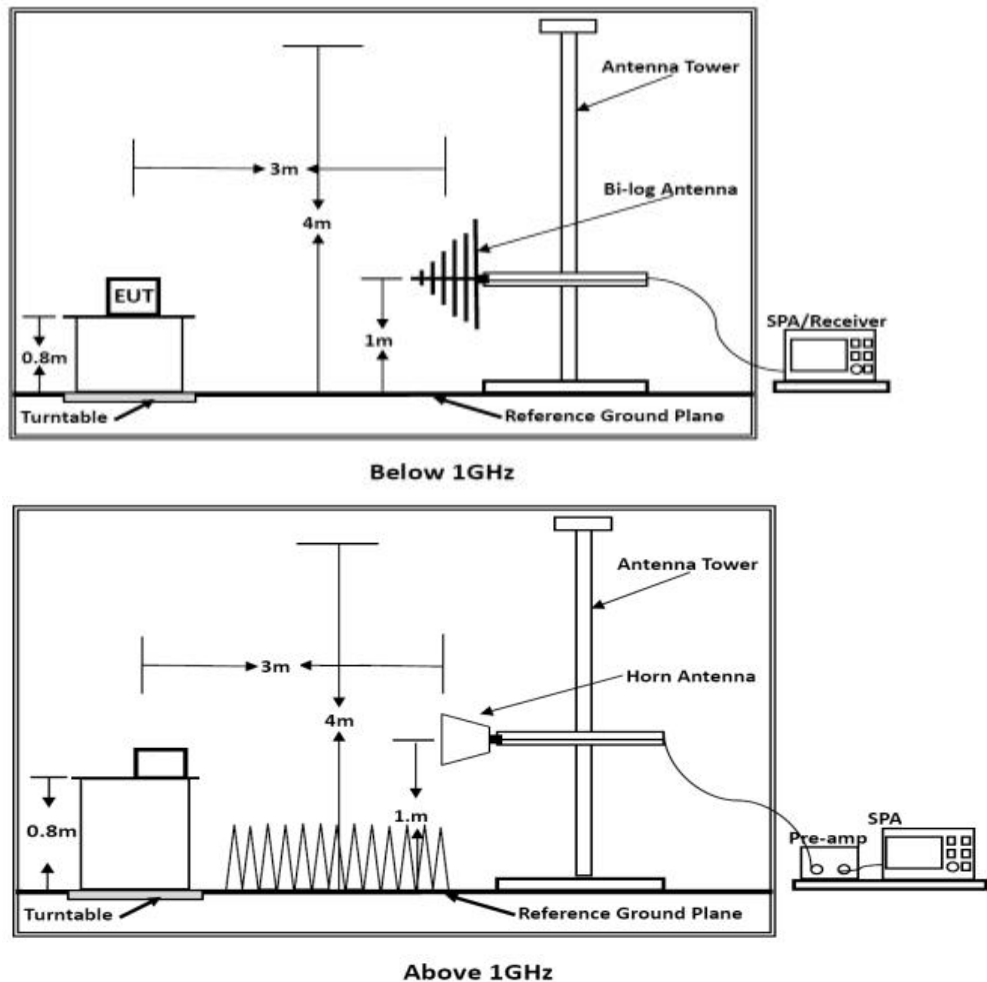
3.2. Radiated emission Measurement

3.2.1. Test Equipment

The following test equipments are used during the radiated emission measurement:

Item	Equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	EMI Test Software	AUDIX	E3	/	N/A	N/A
2	3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	2021-06-21	2022-06-20
3	Positioning Controller	MF	MF7082	MF78020803	2021-06-21	2022-06-20
4	By-log Antenna	SCHWARZBECK	VULB9163	9163-470	2021-07-25	2024-07-24
5	Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-1925	2021-07-01	2024-06-30
6	EMI Test Receiver	R&S	ESR3	102312	2021-06-21	2022-06-20
7	RS SPECTRUM ANALYZER	R&S	FSP40	100503	2021-11-16	2022-11-15
8	Broadband Preamplifier	/	BP-01M18G	P190501	2021-06-21	2022-06-20

3.2.2. Block Diagram of Test Setup





3.2.3. Radiated Emission Limit (Class B)

Limits for Radiated Disturbance Below 1GHz

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		$\mu\text{V/m}$	$\text{dB}(\mu\text{V})/\text{m}$
30 ~ 88	3	100	40
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46
960 ~ 1000	3	500	54
Remark: (1) Emission level $(\text{dB})\mu\text{V} = 20 \log$ Emission level $\mu\text{V/m}$ (2) The smaller limit shall apply at the cross point between two frequency bands. (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.			
Limits for Radiated Emission Above 1GHz			
Frequency (MHz)	Distance (Meters)	Peak Limit ($\text{dB}\mu\text{V/m}$)	Average Limit ($\text{dB}\mu\text{V/m}$)
Above 1000	3	74	54
***Note: The lower limit applies at the transition frequency.			

3.2.4. EUT Configuration on Measurement

The following equipment are installed on Radiated Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

3.2.5. Operating Condition of EUT

3.2.5.1. Setup the EUT as shown in Section 3.2.2.

3.2.5.2. Let the EUT work in test Mode 1 and measure it.

3.2.6. Test Procedure

EUT and its simulators are placed on a turntable, which is 0.8 meter high above ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated by-log antenna) is used as receiving antenna. Both horizontal and vertical polarization of the antenna is set on measurement. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.4-2014 on radiated emission measurement.

3.2.7. Measuring Instruments and Setting

Please refer to equipment list in this report. The following table is the setting of spectrum analyzer and receiver



Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB/VB 200Hz/1KHz for QP/AVG
Start ~ Stop Frequency	150kHz~30MHz / RB/VB 9kHz/30KHz for QP/AVG
Start ~ Stop Frequency	30MHz~1000MHz / RB/VB 120kHz/1MHz for QP

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (Emission in restricted band)	1MHz / 1MHz for Peak, 1 MHz / 1/B kHz for Average
RB / VB (Emission in non-restricted band)	1MHz / 1MHz for Peak, 1 MHz / 1/B kHz for Average

The frequency range from 30MHz to 1000MHz and above 1000MHz is checked.

3.2.8. Radiated Emission Noise Measurement Result

PASS.

The scanning waveforms please refer to the next page.



Test Model	B6-1	Test Mode	Mode 1
Environmental Conditions	23.8°C, 52.3% RH	Detector Function	Quasi-peak
Pol	Vertical	Distance	3m
Test Engineer	Bill Zhu	Test Voltage	AC 120V/60Hz



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1 *	83.5222	46.41	-19.53	26.88	40.00	-13.12	QP
2	129.0146	45.41	-20.50	24.91	43.50	-18.59	QP
3	155.3644	49.20	-19.75	29.45	43.50	-14.05	QP
4	245.0900	43.61	-15.84	27.77	46.00	-18.23	QP
5	365.5391	32.81	-14.79	18.02	46.00	-27.98	QP
6	900.1474	37.67	-8.30	29.37	46.00	-16.63	QP



Test Model	B6-1	Test Mode	Mode 1
Environmental Conditions	23.8°C, 52.3% RH	Detector Function	Quasi-peak
Pol	Horizontal	Distance	3m
Test Engineer	Bill Zhu	Test Voltage	AC 120V/60Hz

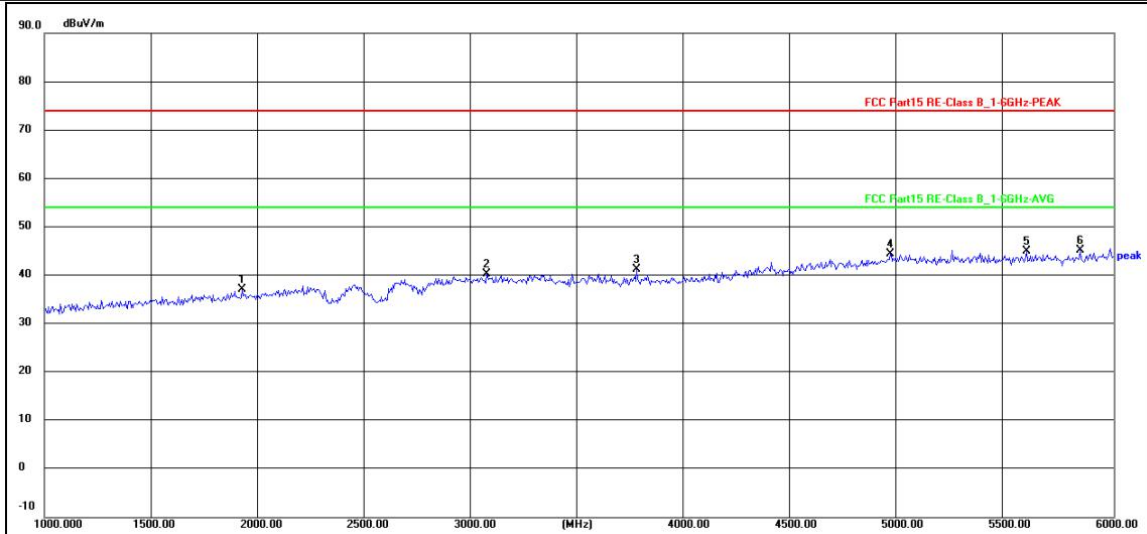


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	84.1100	51.17	-19.47	31.70	40.00	-8.30	QP
2	114.9168	56.23	-19.49	36.74	43.50	-6.76	QP
3 !	153.7385	60.11	-19.77	40.34	43.50	-3.16	QP
4 *	184.4898	58.46	-18.09	40.37	43.50	-3.13	QP
5	260.1444	47.19	-15.51	31.68	46.00	-14.32	QP
6	996.4995	39.79	-7.27	32.52	54.00	-21.48	QP

Note: 1. Pre-Scan all mode, Thus record worse case mode result in this report.



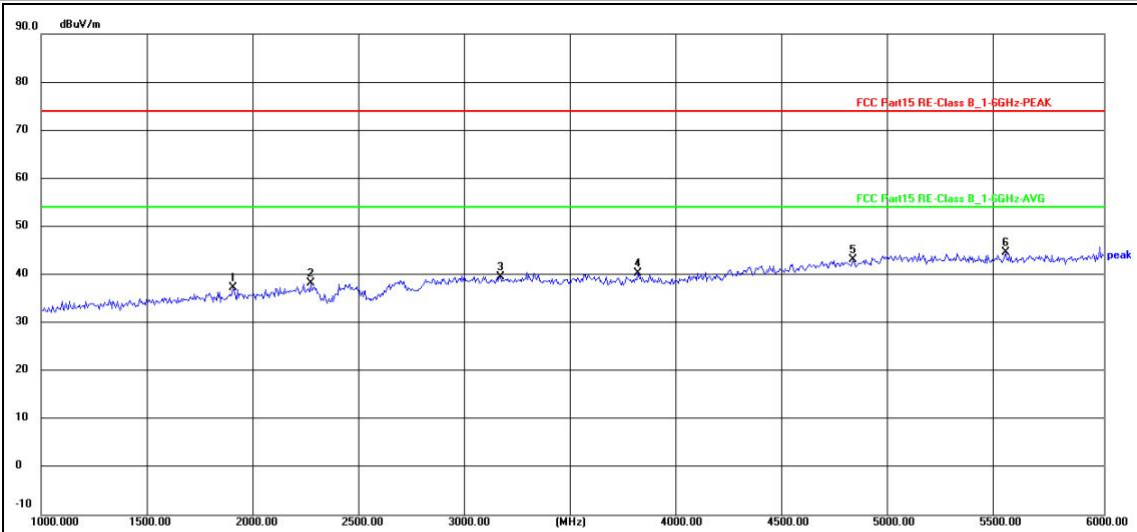
Test Model	B6-1	Test Mode	Mode 1 (Above 1GHz)
Environmental Conditions	23.6°C, 52.5% RH	Detector Function	Peak + AV
Pol	Vertical	Distance	3m
Test Engineer	Bill Zhu	Test Voltage	AC 120V/60Hz



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	1925.000	50.65	-13.50	37.15	74.00	-36.85	peak
2	3070.000	49.88	-9.57	40.31	74.00	-33.69	peak
3	3770.000	50.07	-8.94	41.13	74.00	-32.87	peak
4	4955.000	48.67	-4.34	44.33	74.00	-29.67	peak
5	5595.000	48.22	-3.30	44.92	74.00	-29.08	peak
6 *	5845.000	48.66	-3.54	45.12	74.00	-28.88	peak



Test Model	B6-1	Test Mode	Mode 1 (Above 1GHz)
Environmental Conditions	23.6°C, 52.5% RH	Detector Function	Peak + AV
Pol	Horizontal	Distance	3m
Test Engineer	Bill Zhu	Test Voltage	AC 120V/60Hz



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	1905.000	50.84	-13.61	37.23	74.00	-36.77	peak
2	2270.000	50.38	-12.16	38.22	74.00	-35.78	peak
3	3160.000	49.12	-9.53	39.59	74.00	-34.41	peak
4	3810.000	49.08	-8.87	40.21	74.00	-33.79	peak
5	4820.000	48.09	-5.01	43.08	74.00	-30.92	peak
6 *	5540.000	47.88	-3.25	44.63	74.00	-29.37	peak

Note: 1. Pre-Scan all mode, Thus record worse case mode result in this report.

Please refer to separated files for Test Setup Photos of the EUT.



4. TEST SETUP Photographs of eut

Please refer to separated files for Test Setup Photos of the EUT.

5. Exterior Photographs of the eut

Please refer to separated files for External Photos of the EUT.

6. INTERIOR Photographs of the eut

Please refer to separated files for Internal Photos of the EUT.

-----THE END OF TEST REPORT-----