

# FCC EMC TEST REPORT

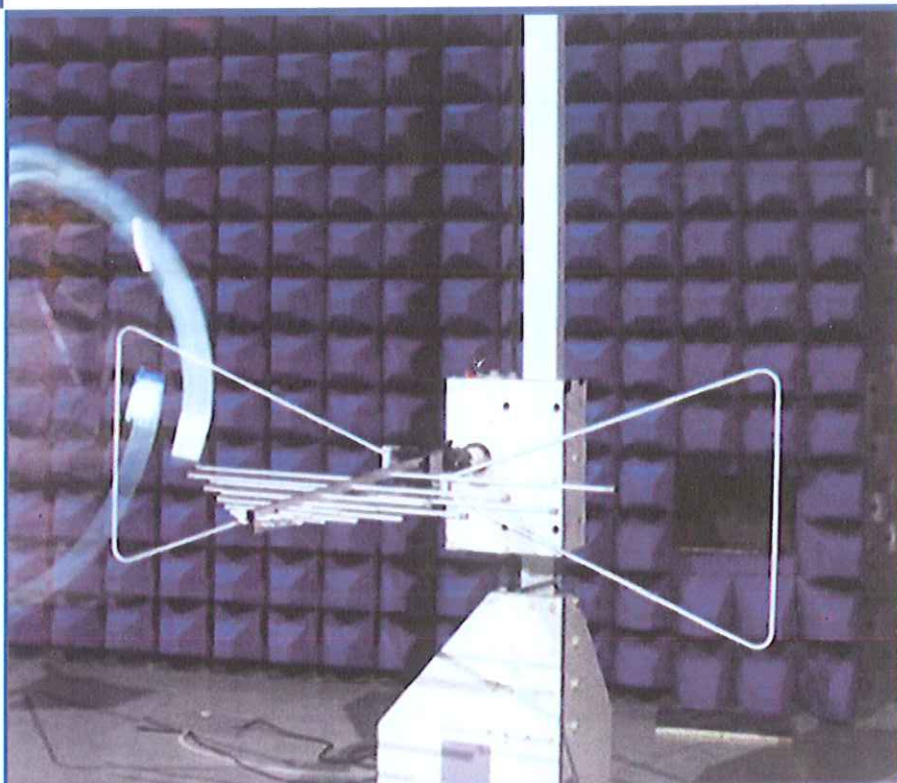
ISSUED BY  
Shenzhen BALUN Technology Co., Ltd.



FOR  
**Head-mounted Virtual Reality equipment**

ISSUED TO  
Chengdu Simlens Technology Co., Ltd.

7F, Fang Da building, Ave 12 High-tech Industrial Park, Nanshan Dist,  
Shenzhen, China



Tested by: Zhang Yanqing

Zhang Yanqing  
(Engineer)

Date Dec. 4, 2015

Approved by: Wei Yanquan

Wei Yanquan  
(Chief Engineer)

Date Dec. 4, 2015

Report No.: BL-SZ15B0027-401

EUT Type: Head-mounted Virtual Reality equipment

Model Name: SIMLENS V1000

Brand Name: SIMLENS

Test Standard: 47 CFR Part 15 Subpart B

FCC ID: 2AGET-SIMLENSV1000

Test conclusion: Pass

Test Date: Nov. 11, 2015 ~ Nov. 18, 2015

Date of Issue: Dec. 4, 2015

*NOTE: This test report can be duplicated completely for the legal use with the approval of the applicant; it shall not be reproduced except in full, without the written approval of Shenzhen BALUN Technology Co., Ltd. BALUN Laboratory. Any objections should be raised within thirty days from the date of issue. To validate the report, please visit BALUN website.*

**Revision History**

Version	Issue Date	Revisions
<u>Rev. 01</u>	<u>Dec. 4, 2015</u>	<u>Initial Issue</u>

**TABLE OF CONTENTS**

1	GENERAL INFORMATION .....	4
1.1	Identification of the Testing Laboratory .....	4
1.2	Identification of the Responsible Testing Location .....	4
1.3	Laboratory Condition .....	4
1.4	Announce .....	4
2	PRODUCT INFORMATION .....	6
2.1	Applicant Information .....	6
2.2	Manufacturer Information .....	6
2.3	Factory Information .....	6
2.4	General Description for Equipment under Test (EUT) .....	6
2.5	Ancillary Equipment .....	6
2.6	Technical Information .....	7
3	SUMMARY OF TEST RESULTS .....	8
3.1	Test Standards .....	8
3.2	Verdict .....	8
3.3	Test Uncertainty .....	8
4	GENERAL TEST CONFIGURATIONS .....	9
4.1	Test Environments .....	9
4.2	Test Equipment List .....	9
4.3	Test Enclosure list .....	10
4.4	Test Configurations .....	10
4.5	Test Setups .....	11
4.6	Test Conditions .....	13
5	TEST ITEMS .....	14
5.1	Emission Tests .....	14

ANNEX A	TEST RESULTS.....	16
A.1	Radiated Emission .....	16
A.2	Conducted Emission .....	24
ANNEX B	TEST SETUP PHOTOS .....	28
ANNEX C	EUT EXTERNAL PHOTOS .....	28
ANNEX D	EUT INTERNAL PHOTOS .....	28

# 1 GENERAL INFORMATION

## 1.1 Identification of the Testing Laboratory

Company Name	Shenzhen BALUN Technology Co., Ltd.
Address	Block B, 1st FL, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Phone Number	+86 755 6685 0100
Fax Number	+86 755 6182 4271

## 1.2 Identification of the Responsible Testing Location

Test Location	Shenzhen BALUN Technology Co., Ltd.
Address	Block B, 1st FL, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Accreditation Certificate	<p>The laboratory has been listed by Industry Canada to perform electromagnetic emission measurements. The recognition numbers of test site are 11524A-1.</p> <p>The laboratory has been listed by US Federal Communications Commission to perform electromagnetic emission measurements. The recognition numbers of test site are 832625.</p> <p>The laboratory has met the requirements of the IAS Accreditation Criteria for Testing Laboratories (AC89), has demonstrated compliance with ISO/IEC Standard 17025:2005. The accreditation certificate number is TL-588.</p> <p>The laboratory is a testing organization accredited by China National Accreditation Service for Conformity Assessment (CNAS) according to ISO/IEC 17025. The accreditation certificate number is L6791.</p>
Description	All measurement facilities used to collect the measurement data are located at Block B, FL 1, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China 518055

## 1.3 Laboratory Condition

Ambient Temperature	20°C~25°C
Ambient Relative Humidity	45% - 55%
Ambient Pressure	100 kPa - 102 kPa

## 1.4 Announce

- (1) The test report reference to the report template version v1.2.
- (2) The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
- (3) The test report is invalid if there is any evidence and/or falsification.
- (4) The results documented in this report apply only to the tested sample, under the conditions and modes of

operation as described herein.

- (5) This document may not be altered or revised in any way unless done so by BALUN and all revisions are duly noted in the revisions section.
- (6) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.

## 2 PRODUCT INFORMATION

### 2.1 Applicant Information

Applicant	Chengdu Simlens Technology Co., Ltd.
Address	7F, Fang Da building, Ave 12 High-tech Industrial Park, Nanshan Dist, Shenzhen, China

### 2.2 Manufacturer Information

Manufacturer	Chengdu Simlens Technology Co., Ltd.
Address	7F, Fang Da building, Ave 12 High-tech Industrial Park, Nanshan Dist, Shenzhen, China

### 2.3 Factory Information

Factory	Chengdu Simlens Technology Co., Ltd.
Address	7F, Fang Da building, Ave 12 High-tech Industrial Park, Nanshan Dist, Shenzhen, China

### 2.4 General Description for Equipment under Test (EUT)

EUT Type	Head-mounted Virtual Reality equipment
Model Name under Test	SIMLENS V1000
Hardware Version	P2
Software Version	V0.5.2
Dimensions (Approx.)	195.8 x 105.4 x 108.3 mm
Weight (Approx.)	608.8 g
Network and Wireless connectivity	Bluetooth, WIFI

### 2.5 Ancillary Equipment

Ancillary Equipment 1	Battery	
	Brand Name	N/A
	Model No.	805268P
	Serial No.	N/A
	Capacitance	4300 mAh
	Rated Voltage	3.8 V
	Limit Charge Voltage	4.35 V
Ancillary Equipment 2	Charger	
	Brand Name	SIMLENS
	Model No.	STC-A52A-Z
	Serial No.	N/A
	Rated Input	100-240 V~, 50/60 Hz, 0.25 A
	Rated Output	5 V=, 2.0 A
Ancillary Equipment 3	USB Data Cable	
	Length (Approx.)	1.0 m
Ancillary Equipment 4	Fixing device	

## 2.6 Technical Information

N/A



### 3 SUMMARY OF TEST RESULTS

#### 3.1 Test Standards

No.	Identity	Document Title
1	FCC 47 CFR Part 15 Subpart B (10-1-14 Edition)	Unintentional Radiators
2	ANSI C63.4-2014	American National Standard for Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz

#### 3.2 Verdict

No.	Description	FCC Rule	Test Verdict	Result
1	Radiated Emission	15.109	Pass	Annex A .1
2	Conducted Emission, AC Ports	15.107	Pass	Annex A .2

#### 3.3 Test Uncertainty

The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of  $k=2$ .

Measurement	Value
Conducted emissions (9 kHz-30 MHz)	2.79 dB
Radiated emissions (30 MHz-1 GHz)	3.45 dB
Radiated emissions (1 GHz-18 GHz)	3.67 dB



## 4 GENERAL TEST CONFIGURATIONS

### 4.1 Test Environments

Environment Parameter	Selected Values During Tests			
	Temperature	Voltage	Relative Humidity	Ambient Pressure
Normal Temperature, Normal Voltage (NTNV)	23°C~26°C	AC 110 V/60 Hz	50%-55%	100 to 102 kPa

### 4.2 Test Equipment List

Radiated Emission Test						
Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due	Use
EMI Receiver	ROHDE&SCHWARZ	ESRP	101036	2015.07.14	2016.07.13	<input checked="" type="checkbox"/>
Test Antenna-Loop(9 kHz-30 MHz)	SCHWARZBECK	FMZB 1519	1519-037	2015.07.22	2017.07.21	<input checked="" type="checkbox"/>
Test Antenna-Bi-Log(30 MHz-3 GHz)	SCHWARZBECK	VULB 9163	9163-624	2015.07.22	2017.07.21	<input checked="" type="checkbox"/>
Test Antenna-Horn(1-18 GHz)	SCHWARZBECK	BBHA 9120D	9120D-1148	2015.07.22	2017.07.21	<input checked="" type="checkbox"/>
Test Antenna-Horn(15-26.5 GHz)	SCHWARZBECK	BBHA 9170	9170-305	2015.07.22	2017.07.21	<input type="checkbox"/>
Anechoic Chamber	RAINFORD	9 m*6 m*6 m	N/A	2015.02.28	2016.02.27	<input checked="" type="checkbox"/>

Conducted disturbance Test						
Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due	Use
EMI Receiver	ROHDE&SCHWARZ	ESRP	101036	2015.07.14	2016.07.13	<input checked="" type="checkbox"/>
LISN	SCHWARZBECK	NSLK 8127	8127-687	2015.07.14	2016.07.13	<input checked="" type="checkbox"/>
AMN	SCHWARZBECK	NNBM8124	8124-509	2015.07.14	2016.07.13	<input type="checkbox"/>
AMN	SCHWARZBECK	NNBM8124	8124-510	2015.07.14	2016.07.13	<input type="checkbox"/>
ISN	TESEQ	ISN T800	34449	2015.07.14	2016.07.13	<input type="checkbox"/>
Shielded Enclosure	ChangNing	CN-130701	130703	N/A	N/A	<input checked="" type="checkbox"/>

### 4.3 Test Enclosure list

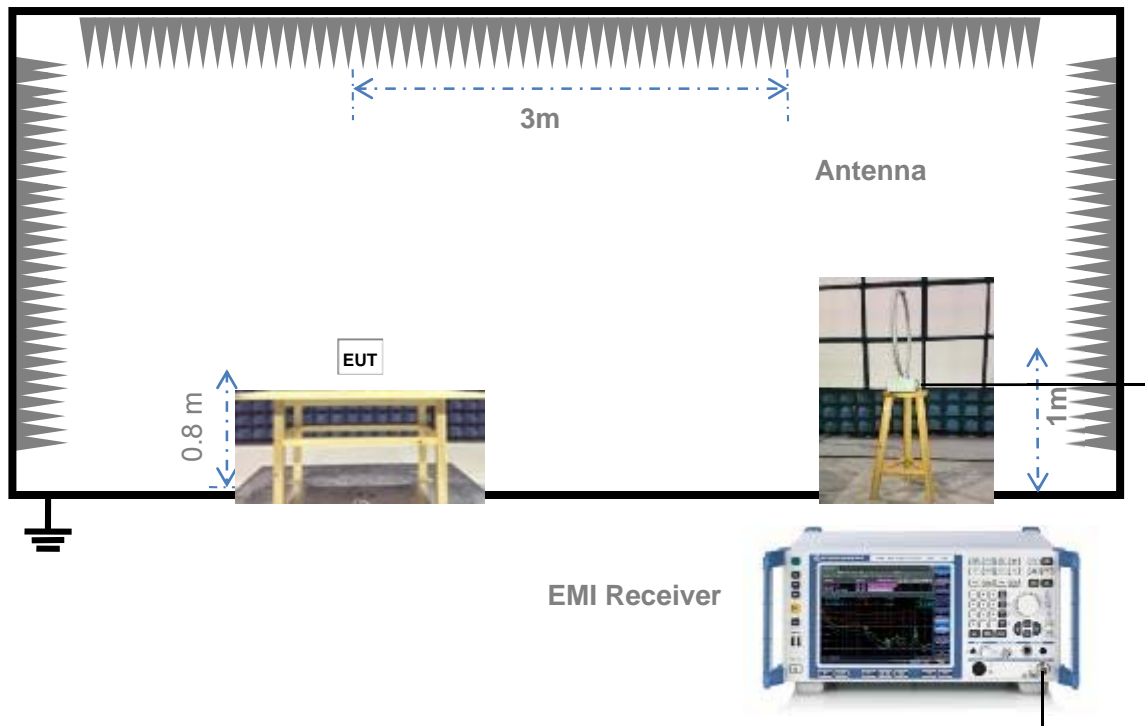
Description	Manufacturer	Model	Serial No.	Length	Description	Use
PC	N/A	N/A	N/A	N/A	Special Handled	<input type="checkbox"/>
Printer	HP	DESKJET 1000	N/A	N/A	N/A	<input type="checkbox"/>
Keyboard	Logitech	Y-BP62a	N/A	N/A	N/A	<input type="checkbox"/>
Mouse	Logitech	M100	N/A	N/A	N/A	<input type="checkbox"/>
USB disk	Kingston	N/A	N/A	N/A	N/A	<input type="checkbox"/>
TF Card	Kingston	N/A	N/A	N/A	N/A	<input type="checkbox"/>
VGA Cable	N/A	N/A	N/A	1.5 m	Shielded with core	<input type="checkbox"/>
HDMI Cable	N/A	N/A	N/A	1.5 m	Shielded with core	<input type="checkbox"/>
DVI Cable	N/A	N/A	N/A	1.5 m	Shielded with core	<input type="checkbox"/>
Coaxial video cable	N/A	N/A	N/A	2.0 m	Shielded with core	<input type="checkbox"/>
iPhone	APPLE	A1586	N/A	N/A	N/A	<input type="checkbox"/>
Laptop	LENOVO	K29	N/A	N/A	N/A	<input checked="" type="checkbox"/>
Earphone	N/A	BAYASOLO	N/A	1.4 m	N/A	<input checked="" type="checkbox"/>

### 4.4 Test Configurations

Test Configurations (TC) No.	Description
TC01	<u>The Charge(Adapter) test mode</u> The EUT configuration of the emission tests is EUT + Battery + USB Cable + Adapter + Earphone + Fixing device. During the measurement, the EUT with the earphone recharged by the AC power.
TC02	<u>The Data Transfer test mode</u> The EUT configuration of the emission tests is EUT + Battery + USB Cable + Laptop + Earphone + Fixing device. During the measurement, The EUT is connected with the laptop via a USB cable, it powered by laptop, and the data is transmitting between the laptop and the EUT.

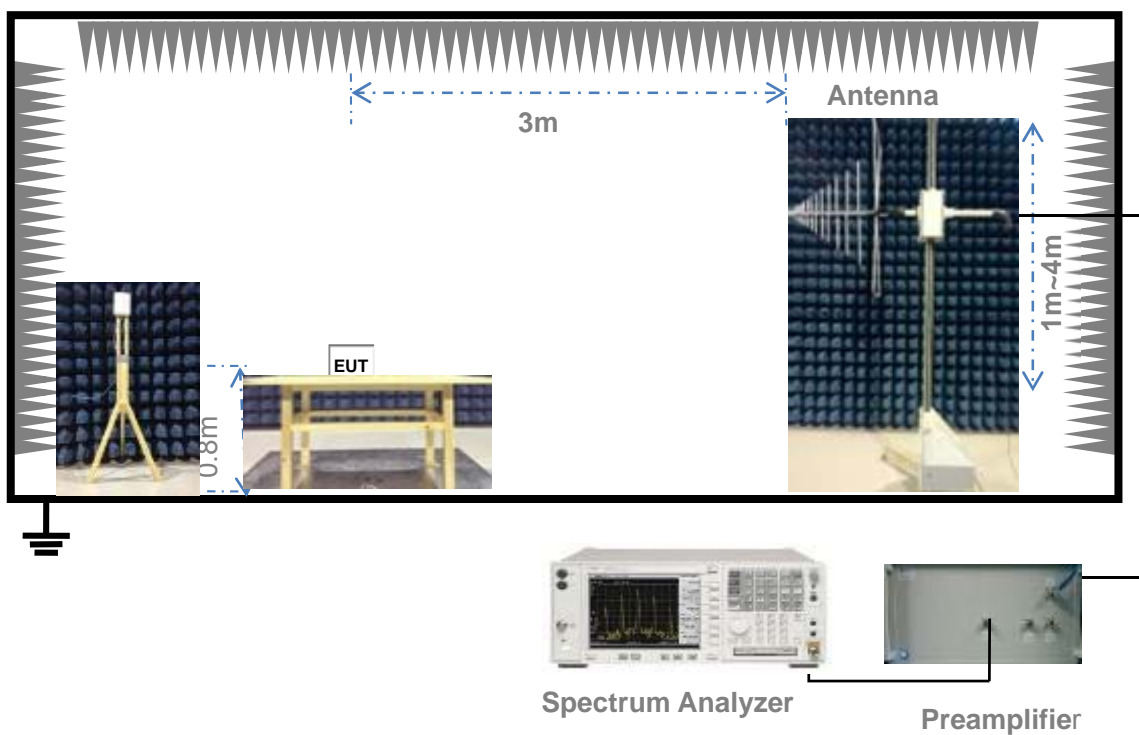
## 4.5 Test Setups

### Test Setup 1



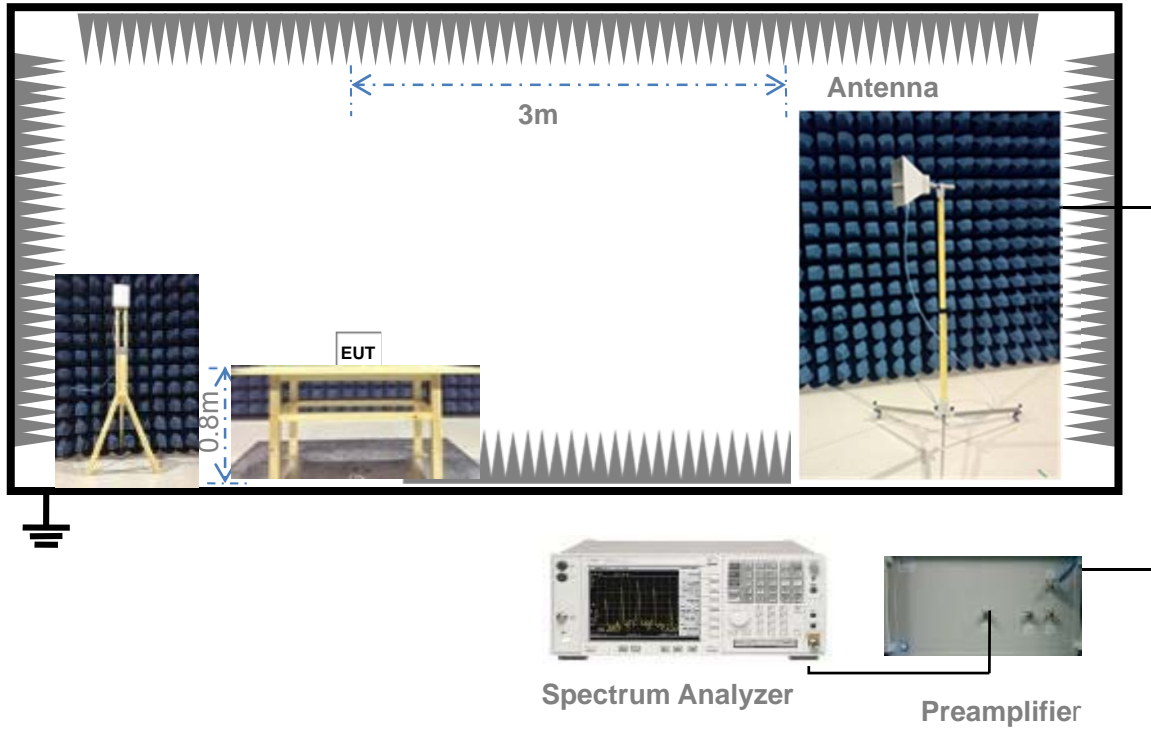
For Radiated Emission Test (Below 30 MHz))

### Test Setup 2



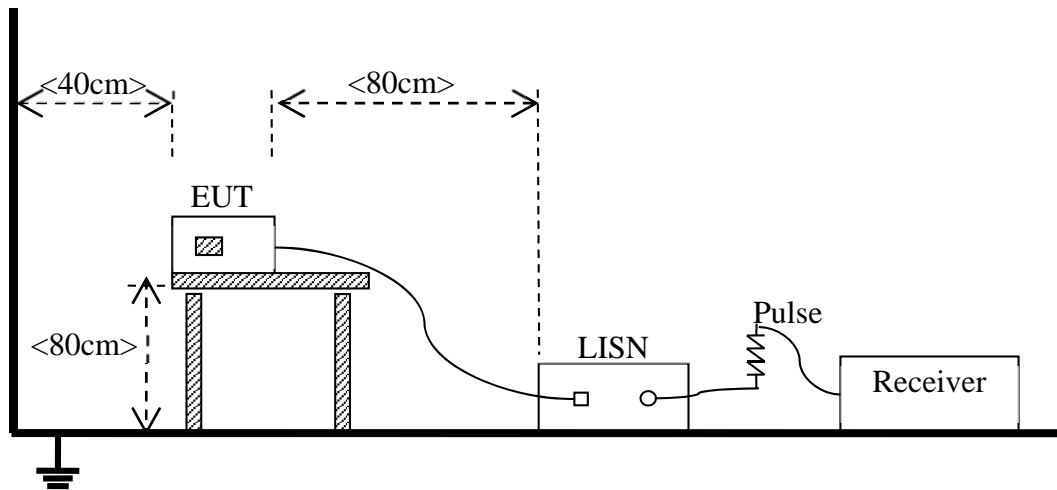
(For Radiated Emission Test (30 MHz-1 GHz))

### Test Setup 3



(For Radiated Emission Test (above 1 GHz))

### Test Setup 4



(For Conducted Emission, AC Ports Test)

## 4.6 Test Conditions

Test Case	Test Conditions	
Radiated Emission	Test Env.	NTNV
	Test Setup	Test Setup 1&3
	Test Configuration	TC01~TC02 <sup>Note</sup>
Conducted Emission, AC Ports	Test Env.	NTNV
	Test Setup	Test Setup 4
	Test Configuration	TC01~TC02 <sup>Note</sup>

## 5 TEST ITEMS

### 5.1 Emission Tests

#### 5.1.1 Radiated Emission

##### 5.1.1.1 Limit

Frequency (MHz)	Field Strength ( $\mu\text{V/m}$ )	Measurement Distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

NOTE:

- 1) Field Strength (dB $\mu\text{V/m}$ ) =  $20 \cdot \log [\text{Field Strength } (\mu\text{V/m})]$ .
- 2) In the emission tables above, the tighter limit applies at the band edges.
- 3) For above 1000 MHz, limit field strength of harmonics: 54 dB $\mu\text{V/m}$ @3 m (AV) and 74 dB $\mu\text{V/m}$ @3 m (PK)

##### 5.1.1.2 Test Setup

Refer to 4.5 section (test setups1 to test setups3) for radiated emission test, The photo of test setup please refer to ANNEX B.

##### 5.1.1.3 Test Procedure

All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

An initial pre-scan was performed in the chamber using the EMI Receiver in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by Bi-Log antenna with 2 orthogonal polarities.

##### 5.1.1.4 Test Result

Please refer to ANNEX A.1.

## 5.1.2 Conducted Emission

### 5.1.2.1 Test Limit

Frequency range (MHz)	Conducted Limit (dB $\mu$ V)	
	Quasi-peak	Average
0.15 - 0.50	66 to 56	56 to 46
0.50 - 5	56	46
5 - 30	60	50

NOTE:

- 1) The limit is applicable to Class B ITE.
- 2) The lower limit shall apply at the band edges.
- 3) The limit decreases linearly with the logarithm of the frequency in the range 0.15 - 0.50 MHz.

### 5.1.2.2 Test Setup

Refer to 4.5 section test (test setup 4) for conducted emission, The photo of test setup please refer to ANNEX B.

### 5.1.2.3 Test Procedure

The EUT is connected to the power mains through a LISN which provides 50  $\Omega$ /50  $\mu$ H of coupling impedance for the measuring instrument. The test frequency range is from 150 kHz to 30 MHz. The maximum conducted interference is searched using Peak (PK), Quasi-peak (QP) and Average (AV) detectors; the emission levels that are more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed.

### 5.1.2.4 Test Result

Please refer to ANNEX A.2.



## ANNEX A TEST RESULTS

### A.1 Radiated Emission

Note 1: The symbol of “--” in the table which means not application.

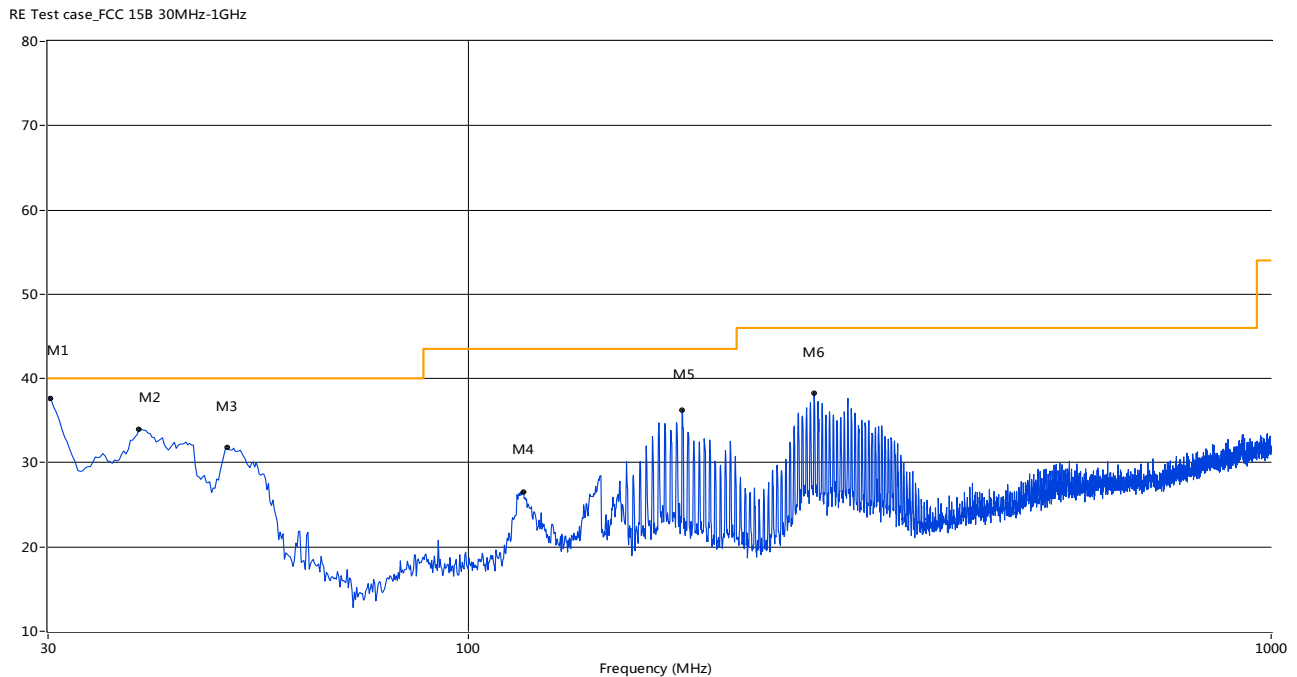
Note 2: For the test data above 1 GHz, According the ANSI C63.4-2014, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

#### Test Data and Plots (Below 1 GHz)

##### The charge (Adapter) test mode

The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31 (o) was not reported.

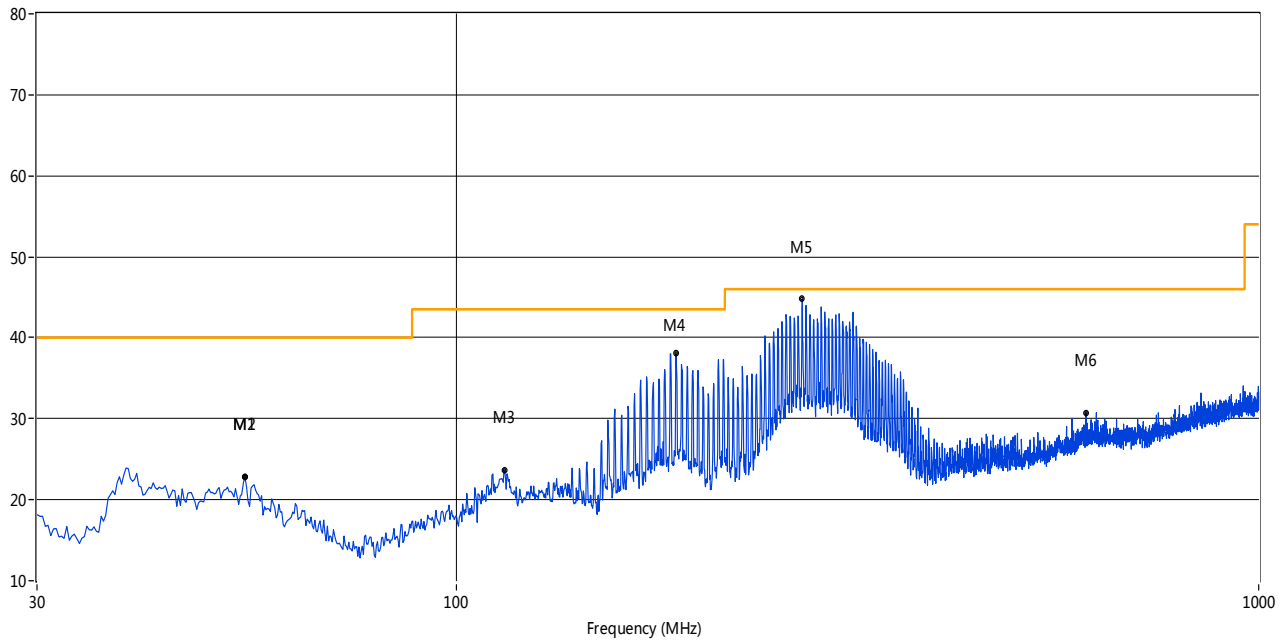
##### A.1.1 Test Antenna Vertical, 30 MHz – 1 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	30.04	37.62	-21.74	40.0	2.38	Peak	62.90	106.80	Vertical	Pass
1*	30.04	35.48	-21.74	40.0	4.52	QP	62.90	106.80	Vertical	Pass
2	38.97	34.01	-19.96	40.0	5.99	Peak	62.90	100	Vertical	Pass
3	50.12	31.77	-18.66	40.0	8.23	Peak	37.80	100	Vertical	Pass
4	117.28	26.53	-21.30	43.5	16.97	Peak	46.00	100	Vertical	Pass
5	184.92	36.28	-21.70	43.5	7.22	Peak	229.40	100	Vertical	Pass
6	269.77	38.22	-18.48	46.0	7.78	Peak	16.70	100	Vertical	Pass

## A.1.2 Test Antenna Horizontal, 30 MHz – 1 GHz

RE Test case\_FCC 15B 30MHz-1GHz

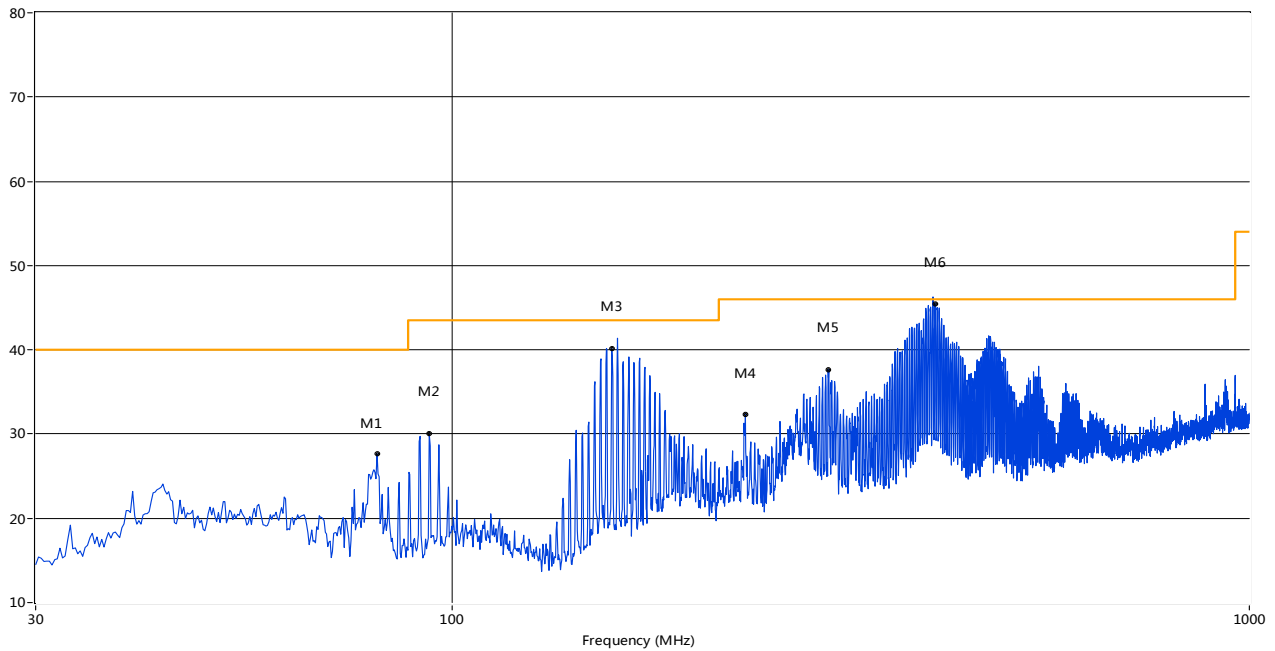


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	54.49	22.79	-18.75	40.0	17.21	Peak	359.70	100	Horizontal	Pass
2	54.49	22.79	-18.75	40.0	17.21	Peak	359.70	100	Horizontal	Pass
3	114.61	23.63	-20.90	43.5	19.87	Peak	160.60	100	Horizontal	Pass
4	187.83	38.03	-21.33	43.5	5.47	Peak	328.50	100	Horizontal	Pass
5	269.77	44.77	-18.48	46.0	1.23	Peak	102.50	100.00	Horizontal	Pass
5*	269.77	42.42	-18.48	46.0	3.58	QP	102.50	100.00	Horizontal	Pass
6	608.95	30.74	-10.51	46.0	15.26	Peak	356.00	100	Horizontal	Pass

## The Data Transfer test mode

### A.1.3 Test Antenna Vertical, 30 MHz – 1 GHz

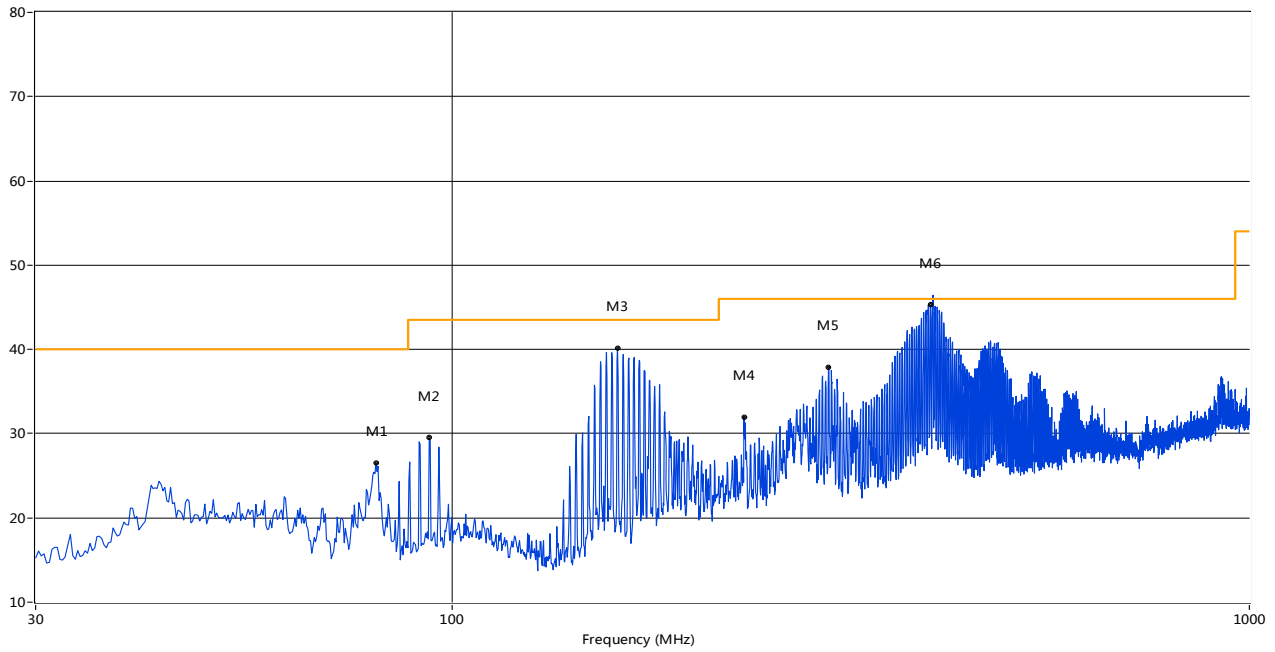
RE Test case\_FCC 15B 30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	80.43	27.66	-24.49	40.0	12.34	Peak	92.90	100	Vertical	Pass
2	93.52	28.98	-21.23	43.5	14.52	Peak	97.70	100	Vertical	Pass
3	161.16	41.38	-23.13	43.5	2.12	Peak	17.40	127.23	Vertical	Pass
3*	161.16	38.18	-23.13	43.5	5.32	QP	17.40	127.23	Vertical	Pass
4	233.16	32.32	-19.51	46.0	13.68	Peak	302.90	100	Vertical	Pass
5	296.68	37.68	-17.73	46.0	8.32	Peak	67.80	100	Vertical	Pass
6	401.03	46.29	-15.15	46.0	-0.29	Peak	359.80	187.56	Vertical	N/A
6*	401.03	42.34	-15.15	46.0	3.66	QP	359.80	187.56	Vertical	Pass

#### A.1.4 Test Antenna Horizontal, 30 MHz – 1 GHz

RE Test case\_FCC 15B 30MHz-1GHz



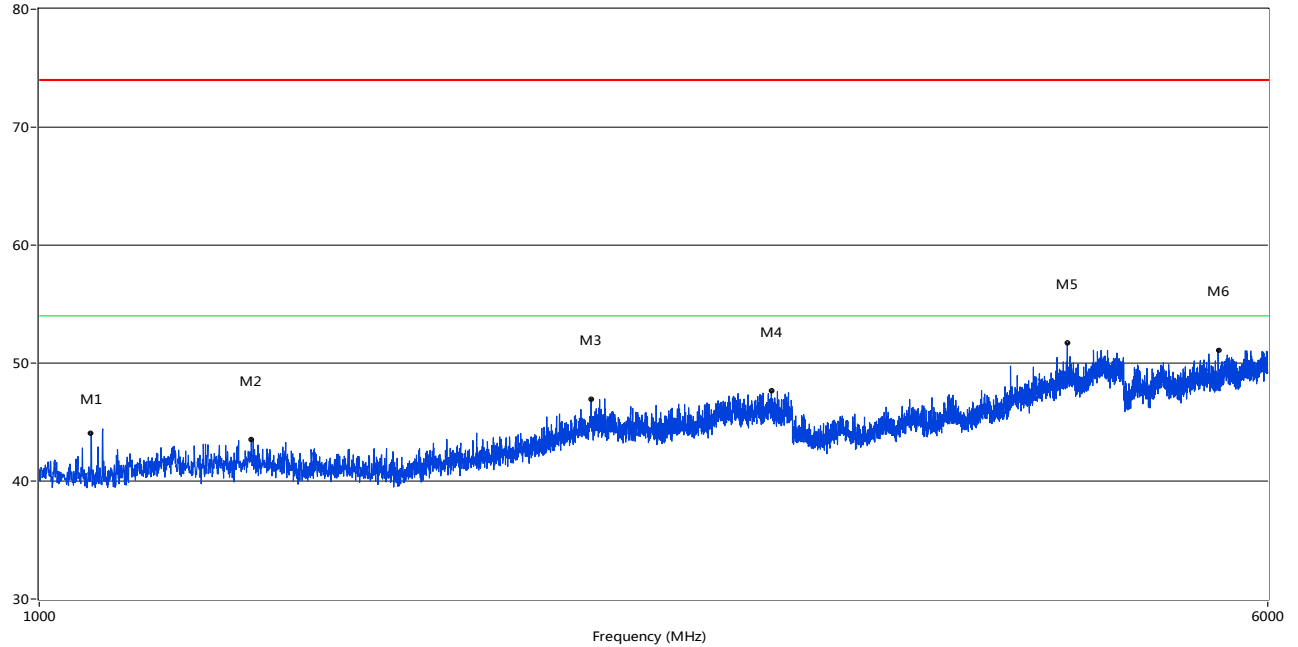
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	80.18	26.52	-24.45	40.0	13.48	Peak	116.00	100	Horizontal	Pass
2	93.52	29.49	-21.23	43.5	14.01	Peak	56.60	100	Horizontal	Pass
3	161.16	40.14	-23.13	43.5	3.36	Peak	10.70	100	Horizontal	Pass
4	232.19	31.99	-19.52	46.0	14.01	Peak	302.80	100	Horizontal	Pass
5	296.68	37.89	-17.73	46.0	8.11	Peak	56.60	100	Horizontal	Pass
6	400.83	46.43	-15.15	46.0	-0.43	Peak	360.00	114.35	Horizontal	N/A
6*	400.83	42.48	-15.15	46.0	3.52	QP	360.00	114.35	Horizontal	Pass

## Test Data and Plots (Above 1 GHz)

### The charge (Adapter) test mode

#### A.1.5 Test Antenna Vertical, 1 GHz – 6 GHz

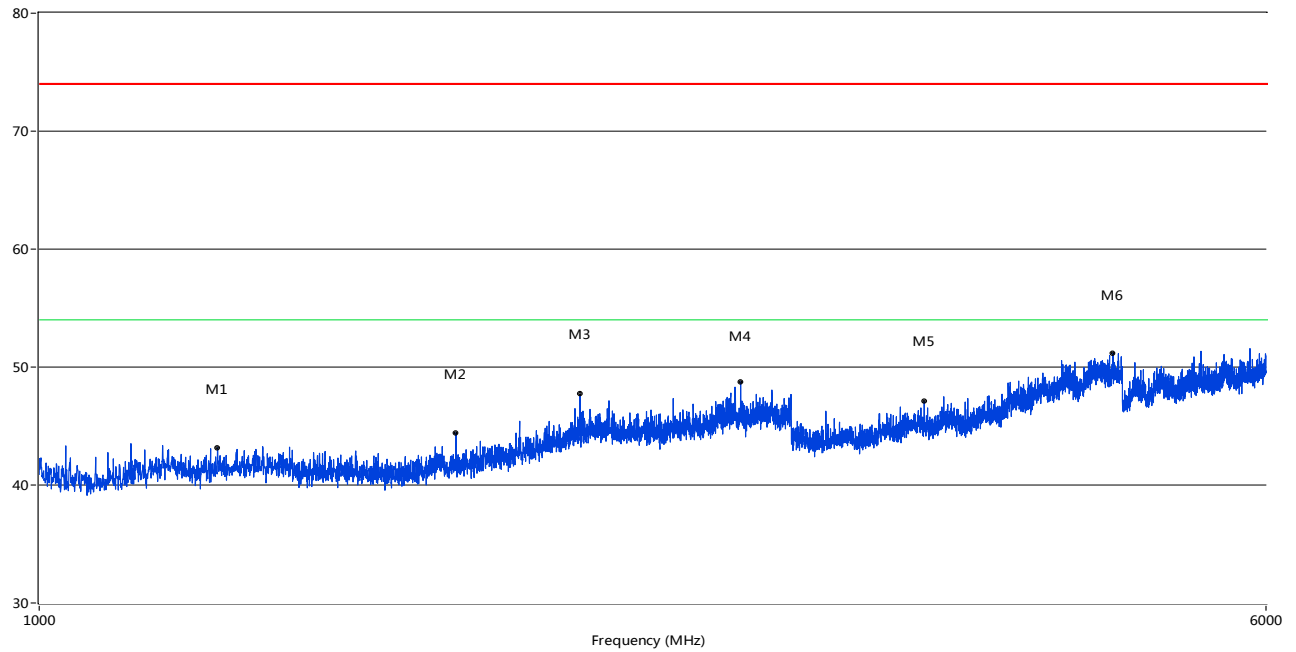
RE Test case\_FCC 15B 1GHz-6GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	1078.48	44.05	-6.10	74.0	29.95	Peak	49.00	100	Vertical	Pass
2	1362.41	43.51	-4.41	74.0	30.49	Peak	327.10	100	Vertical	Pass
3	2236.69	46.94	-0.24	74.0	27.06	Peak	175.50	100	Vertical	Pass
4	2909.02	47.62	2.52	74.0	26.38	Peak	0.50	100	Vertical	Pass
5	4479.38	51.67	12.60	74.0	22.33	Peak	358.60	100	Vertical	Pass
6	5582.35	51.11	15.17	74.0	22.89	Peak	110.70	100	Vertical	Pass

### A.1.6 Test Antenna Horizontal, 1 GHz – 6 GHz

RE Test case\_FCC 15B 1GHz-6GHz

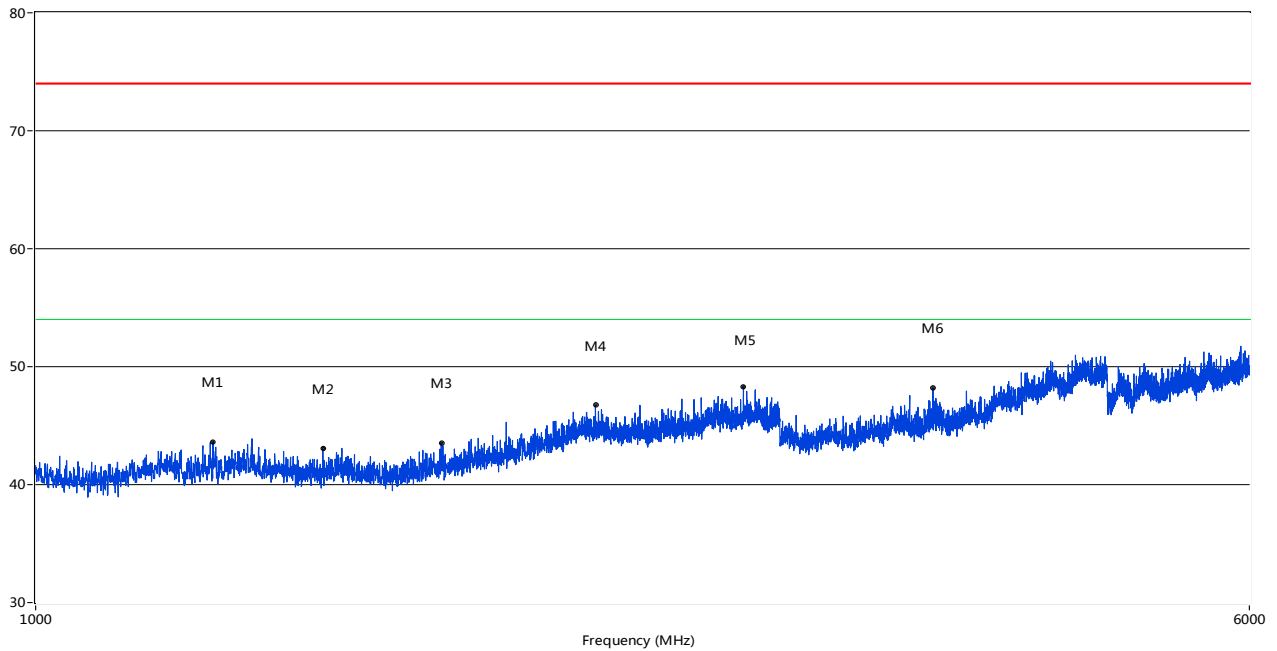


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	1297.43	43.17	-4.79	74.0	30.83	Peak	293.60	100	Horizontal	Pass
2	1838.29	44.45	-3.33	74.0	29.55	Peak	256.00	100	Horizontal	Pass
3	2203.20	47.70	-0.35	74.0	26.30	Peak	357.20	100	Horizontal	Pass
4	2785.55	48.75	1.69	74.0	25.25	Peak	78.70	100	Horizontal	Pass
5	3642.59	47.13	10.10	74.0	26.87	Peak	357.70	100	Horizontal	Pass
6	4797.30	51.15	13.69	74.0	22.85	Peak	0.00	100	Horizontal	Pass

## The Data Transfer test mode

### A.1.7 Test Antenna Vertical, 1 GHz – 6 GHz

RE Test case\_FCC 15B 1GHz-6GHz

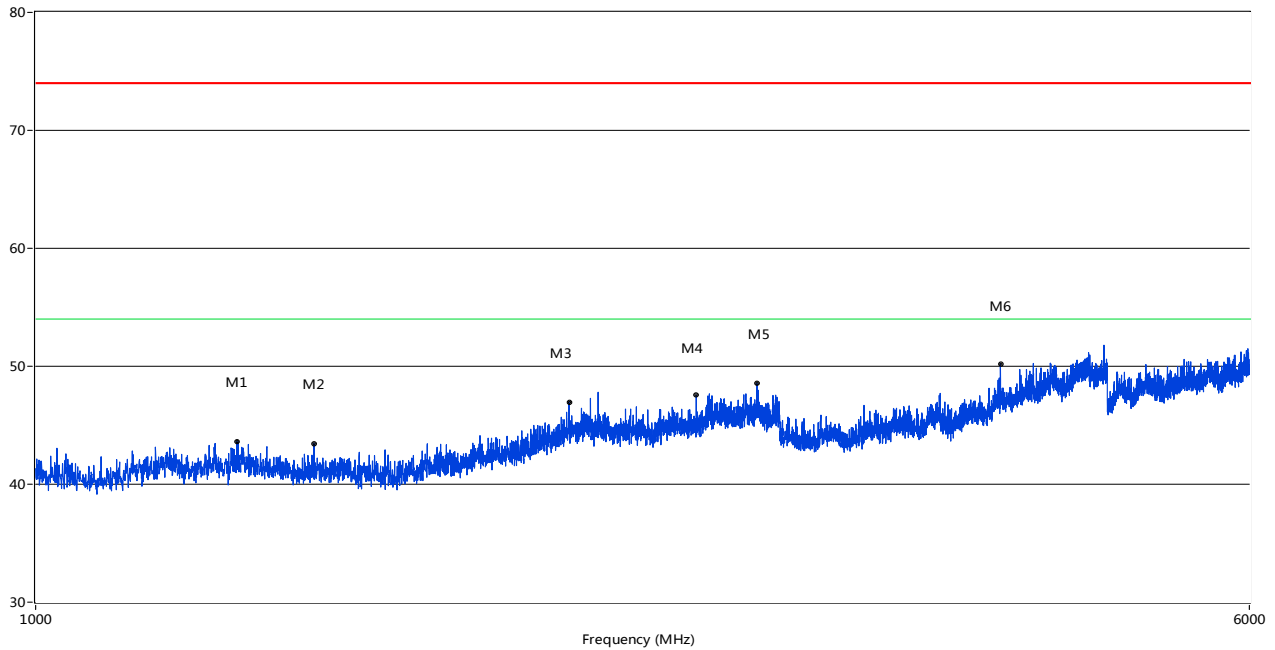


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	1299.43	43.62	-4.72	74.0	30.38	Peak	42.30	100	Vertical	Pass
2	1527.87	43.09	-4.39	74.0	30.91	Peak	296.30	100	Vertical	Pass
3	1819.80	43.54	-3.53	74.0	30.46	Peak	124.40	100	Vertical	Pass
4	2285.18	46.73	-0.54	74.0	27.27	Peak	105.30	100	Vertical	Pass
5	2843.04	48.30	1.87	74.0	25.70	Peak	156.50	100	Vertical	Pass
6	3760.31	48.21	10.45	74.0	25.79	Peak	0.40	100	Vertical	Pass



## A.1.8 Test Antenna Horizontal, 1 GHz – 6 GHz

RE Test case\_FCC 15B 1GHz-6GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	1345.91	43.61	-4.66	74.0	30.39	Peak	250.10	100	Horizontal	Pass
2	1508.37	43.46	-4.30	74.0	30.54	Peak	325.20	100	Horizontal	Pass
3	2197.70	46.94	-0.52	74.0	27.06	Peak	66.80	100	Horizontal	Pass
4	2651.59	47.56	0.77	74.0	26.44	Peak	117.30	100	Horizontal	Pass
5	2900.52	48.55	2.57	74.0	25.45	Peak	312.30	100	Horizontal	Pass
6	4154.71	50.22	11.52	74.0	23.78	Peak	162.10	100	Horizontal	Pass

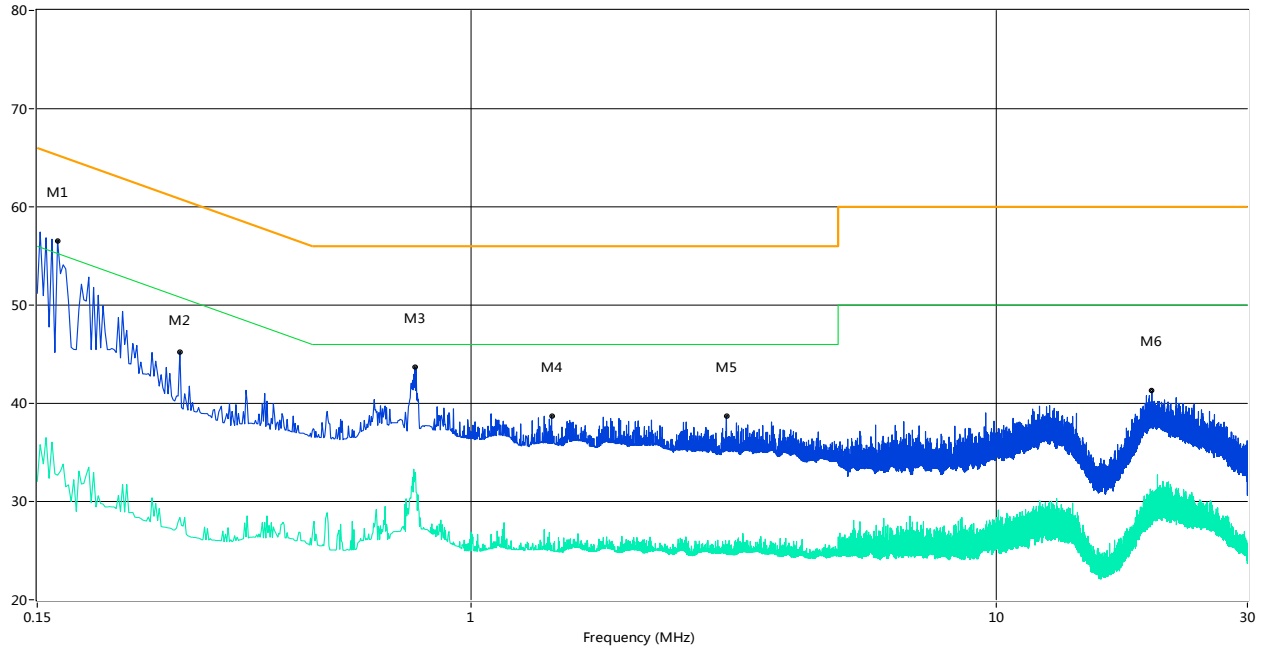
## A.2 Conducted Emission

### Test Data and Plots

#### The charge (Adapter) test mode

##### A.2.1 L Phase

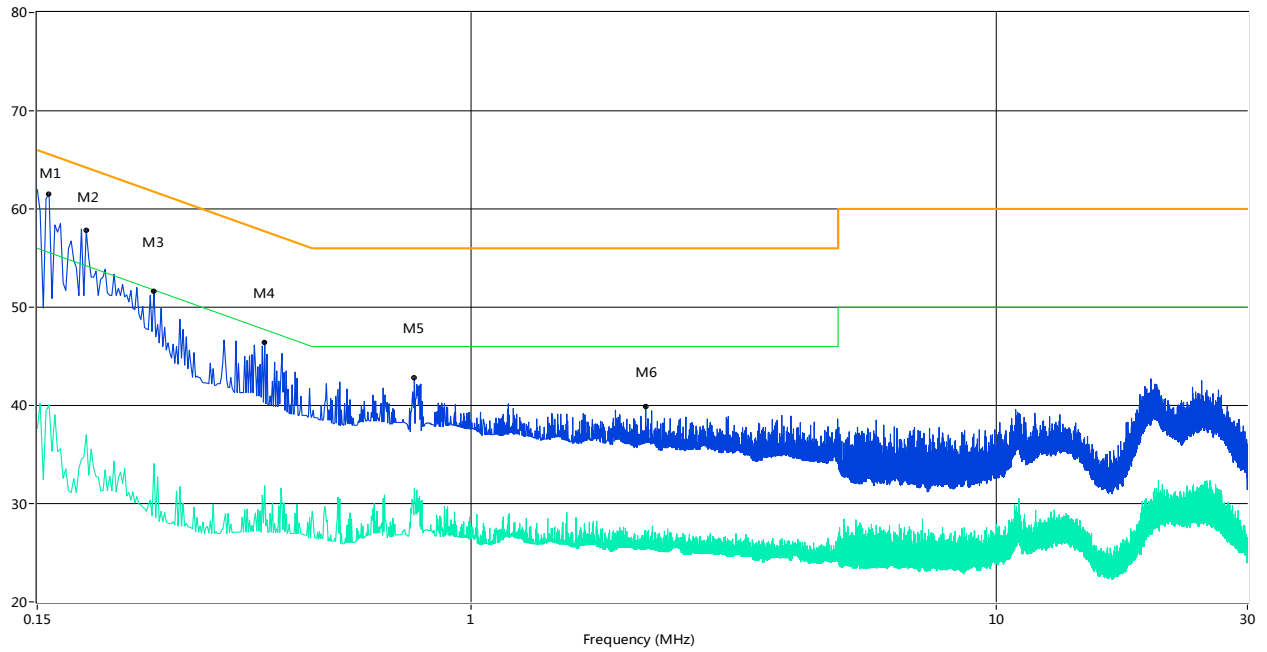
CE Test case\_CE\_FCC PART 15\_ Class B



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.16	56.5	13.00	65.6	9.10	Peak	L Line	Pass
1**	0.16	32.7	13.00	55.6	22.90	AV	L Line	Pass
2	0.28	45.2	13.00	62.3	17.10	Peak	L Line	Pass
2**	0.28	28.4	13.00	52.3	23.90	AV	L Line	Pass
3	0.78	43.7	13.00	56.0	12.30	Peak	L Line	Pass
3**	0.78	33.0	13.00	46.0	13.00	AV	L Line	Pass
4	1.43	38.7	13.00	56.0	17.30	Peak	L Line	Pass
4**	1.43	25.5	13.00	46.0	20.50	AV	L Line	Pass
5	3.06	38.7	13.00	56.0	17.30	Peak	L Line	Pass
5**	3.06	24.3	13.00	46.0	21.70	AV	L Line	Pass
6	19.74	41.3	13.00	60.0	18.70	Peak	L Line	Pass
6**	19.74	28.1	13.00	50.0	21.90	AV	L Line	Pass

## A.2.2 N Phase

CE Test case\_CE\_FCC PART 15\_ Class B

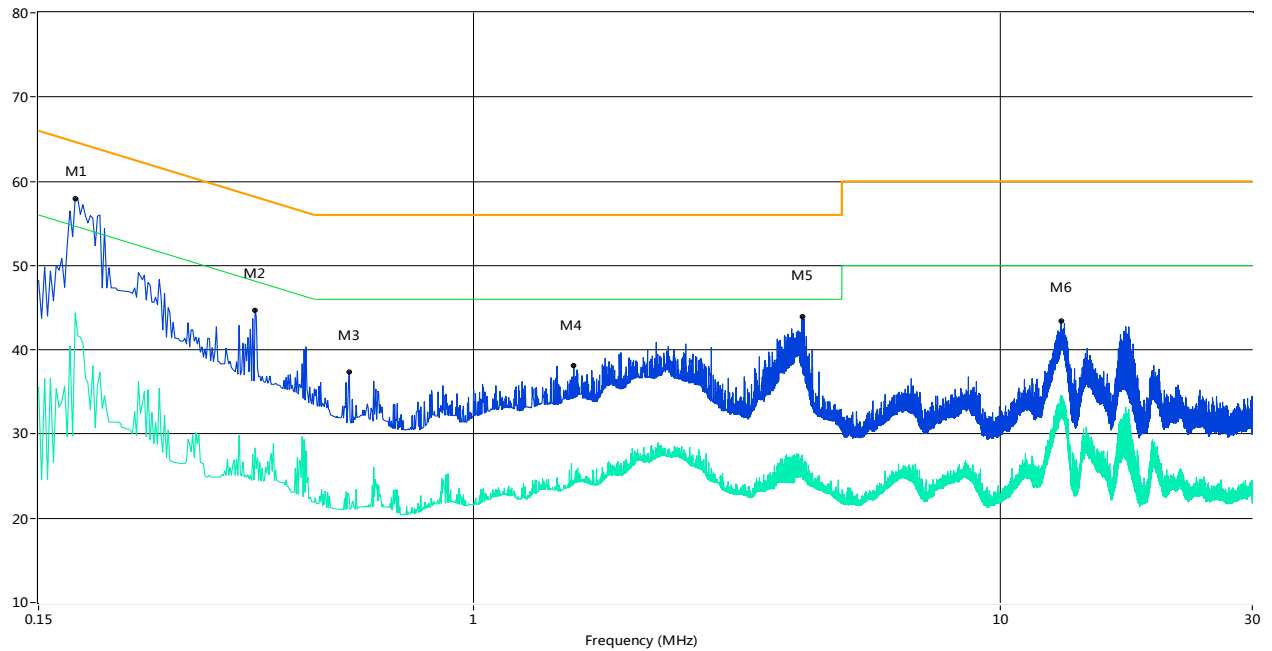


No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.16	61.5	13.00	65.8	4.30	Peak	N Line	Pass
1**	0.16	40.1	13.00	55.8	15.70	AV	N Line	Pass
2	0.19	57.8	13.00	65.0	7.20	Peak	N Line	Pass
2**	0.19	37.0	13.00	55.0	18.00	AV	N Line	Pass
3	0.25	51.6	13.00	63.1	11.50	Peak	N Line	Pass
3**	0.25	34.1	13.00	53.1	19.00	AV	N Line	Pass
4	0.41	46.4	13.00	58.7	12.30	Peak	N Line	Pass
4**	0.41	31.8	13.00	48.7	16.90	AV	N Line	Pass
5	0.78	42.8	13.00	56.0	13.20	Peak	N Line	Pass
5**	0.78	31.6	13.00	46.0	14.40	AV	N Line	Pass
6	2.15	39.9	13.00	56.0	16.10	Peak	N Line	Pass
6**	2.15	27.2	13.00	46.0	18.80	AV	N Line	Pass

## The Data Transfer test mode

### A.2.3 L Phase

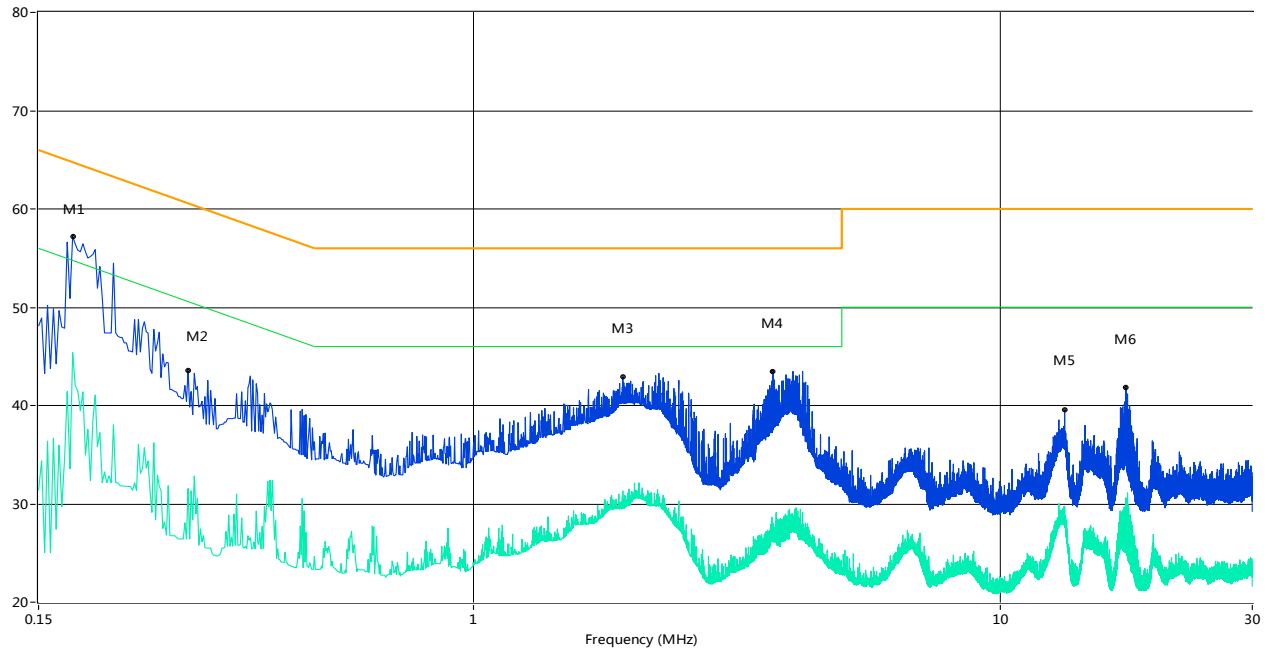
CE Test case\_CE\_FCC PART 15\_ Class B



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.18	57.9	13.00	65.3	7.40	Peak	L Line	Pass
1**	0.18	44.4	13.00	55.3	10.90	AV	L Line	Pass
2	0.39	44.7	13.00	59.3	14.60	Peak	L Line	Pass
2**	0.39	28.4	13.00	49.3	20.90	AV	L Line	Pass
3	0.58	37.4	13.00	56.0	18.60	Peak	L Line	Pass
3**	0.58	22.4	13.00	46.0	23.60	AV	L Line	Pass
4	1.55	38.1	13.00	56.0	17.90	Peak	L Line	Pass
4**	1.55	24.4	13.00	46.0	21.60	AV	L Line	Pass
5	4.20	44.0	13.00	56.0	12.00	Peak	L Line	Pass
5**	4.20	25.9	13.00	46.0	20.10	AV	L Line	Pass
6	13.02	43.5	13.00	60.0	16.50	Peak	L Line	Pass
6**	13.02	33.5	13.00	50.0	16.50	AV	L Line	Pass

## A.2.4 N Phase

CE Test case\_CE\_FCC PART 15\_Class B



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.17	57.2	13.00	65.3	8.10	Peak	N Line	Pass
1**	0.17	45.4	13.00	55.3	9.90	AV	N Line	Pass
2	0.29	43.6	13.00	62.1	18.50	Peak	N Line	Pass
2**	0.29	31.6	13.00	52.1	20.50	AV	N Line	Pass
3	1.92	42.9	13.00	56.0	13.10	Peak	N Line	Pass
3**	1.92	31.3	13.00	46.0	14.70	AV	N Line	Pass
4	3.70	43.5	13.00	56.0	12.50	Peak	N Line	Pass
4**	3.70	28.0	13.00	46.0	18.00	AV	N Line	Pass
5	13.23	39.6	13.00	60.0	20.40	Peak	N Line	Pass
5**	13.23	29.8	13.00	50.0	20.20	AV	N Line	Pass
6	17.26	41.9	13.00	60.0	18.10	Peak	N Line	Pass
6**	17.26	30.6	13.00	50.0	19.40	AV	N Line	Pass

## **ANNEX B TEST SETUP PHOTOS**

Please refer the document “BL-SZ15B0027-AE.PDF”.

## **ANNEX C EUT EXTERNAL PHOTOS**

Please refer the document “BL-SZ15B0027-AW.PDF”.

## **ANNEX D EUT INTERNAL PHOTOS**

Please refer the document “BL-SZ15B0027-AI.PDF”.

--END OF REPORT--