

FCC TEST REPORT
FOR
Sebury Technology Co.,Ltd
Access &Card Reader
Test Model: W3-H
Additional Model No.: W3-A, W3-B, W3-C, W4

Prepared for	:	Sebury Technology Co.,Ltd
Address	:	5/f, Building 8, Xinwu Industrial Park, Xili, Nanshan, Shenzhen, China. P.R.C.: 518055
Prepared by	:	Shenzhen LCS Compliance Testing Laboratory Ltd.
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Date of receipt of test sample	:	January 09, 2017
Number of tested samples	:	1
Serial number	:	Prototype
Date of Test	:	January 09, 2017~January 16, 2017
Date of Report	:	January 16, 2017

FCC TEST REPORT**FCC CFR 47 PART 15 C(15.209)****Report Reference No.** : LCS1701090936E

Date of Issue..... : January 16, 2017

Testing Laboratory Name..... : **Shenzhen LCS Compliance Testing Laboratory Ltd.**Address..... : 1/F., Xingyuan Industrial Park, Tongda Road, Bao'an Avenue,
Bao'an District, Shenzhen, Guangdong, ChinaTesting Location/ Procedure : Full application of Harmonised standards ■
Partial application of Harmonised standards □
Other standard testing method □**Applicant's Name**..... : **Sebury Technology Co.,Ltd**Address..... : 5/f, Building 8, Xinwu Industrial Park, Xili, Nanshan, Shenzhen,
China. P.R.C.: 518055**Test Specification**

Standard : FCC CFR 47 PART 15 C(15.209)

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. : **Access &Card Reader**

Trade Mark..... : SEBURY

Test Model..... : W3-H

Ratings..... : Input: DC 12V by battery

Result : **Positive****Compiled by:**

Dick Su/ File administrators

Supervised by:

Glin Lu/ Technique principal

Approved by:

Gavin Liang/ Manager

FCC -- TEST REPORT

Test Report No. : LCS1701090936E	<u>January 16, 2017</u> Date of issue
---	--

Test Model.....	: W3-H
EUT.....	: Access &Card Reader
Applicant.....	: Sebury Technology Co.,Ltd
Address.....	: 5/f, Building 8, Xinwu Industrial Park, Xili, Nanshan, Shenzhen, China. P.R.C.: 518055
Telephone.....	: /
Fax.....	: /
Manufacturer.....	: Sebury Technology Co.,Ltd
Address.....	: 5/f, Building 8, Xinwu Industrial Park, Xili, Nanshan, Shenzhen, China. P.R.C.: 518055
Telephone.....	: /
Fax.....	: /
Factory.....	: Sebury Technology Co.,Ltd
Address.....	: 5/f, Building 8, Xinwu Industrial Park, Xili, Nanshan, Shenzhen, China. P.R.C.: 518055
Telephone.....	: /
Fax.....	: /

Test Result	Positive
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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
00	2017-01-16	Initial Issue	Gavin Liang

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1. GENERAL INFORMATION

1.1 Description of Device (EUT)

EUT : Access &Card Reader

Model Number : W3-H, W3-A, W3-B, W3-C, W4

Model Declaration : PCB board, structure and internal of these model(s) are the same, So no additional models were tested.

Test Model : W3-H

Power Supply : Input: DC 12V by battery

Hardware Version : W3-A V1.7

Software Version : W3-H-V1.1.3

Frequency Range : 125KHz

Type of radio transmission : Modulated carrier
use of frequency spectrum

Antenna Description : Integrated loop Antenna

1.2 Support equipment List

Manufacturer	Description	Model	Serial Number	Certificate
--	--	--	--	--

1.3 External I/O Cable

I/O Port Description	Quantity	Cable
--	--	--

1.4 Description of Test Facility

CNAS Registration Number. is L4595.

FCC Registration Number. is 899208.

Industry Canada Registration Number. is 9642A-1.

VCCI Registration Number. is C-4260 and R-3804.

ESMD Registration Number. is ARCB0108.

UL Registration Number. is 100571-492.

TUV SUD Registration Number. is SCN1081.

TUV RH Registration Number. is UA 50296516-001

The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.4:2014 and CISPR 16-1-4:2010 SVSWR requirement for radiated emission above 1GHz.

1.5 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.

1.6 Measurement Uncertainty

Test Item	Frequency Range	Uncertainty	Note
Radiation Uncertainty	9KHz~30MHz	3.10dB	(1)
	30MHz~200MHz	2.96dB	(1)
	200MHz~1000MHz	3.10dB	(1)
	1GHz~26.5GHz	3.80dB	(1)
	26.5GHz~40GHz	3.90dB	(1)
Conduction Uncertainty	150kHz~30MHz	1.63dB	(1)
Power disturbance	30MHz~300MHz	1.60dB	(1)

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

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.10-2013, FCC CFR PART 15C 15.207, 15.209.

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

The EUT was operated in the engineering mode to fix the TX frequency that was for the purpose of the measurements.

According to its specifications, the EUT must comply with the requirements of the Section 15.207, 15.209 under the FCC Rules Part 15 Subpart C.

2.3 General Test Procedures

2.3.1 Conducted Emissions

The EUT is directly placed on the ground. According to the requirements in Section 6.2.1 of ANSI C63.10-2013 Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using Quasi-peak and average detector modes.

2.3.2 Radiated Emissions

The EUT is placed on a turntable, which is directly placed on the ground. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in Section 6.3 of ANSI C63.10-2013

3. SYSTEM TEST CONFIGURATION

3.1 Justification

The system was configured for testing in a continuous transmits condition.

3.2 EUT Exercise Software

N/A.

3.3 Special Accessories

N/A.

3.4 Block Diagram/Schematics

Please refer to the related document.

3.5 Equipment Modifications

Shenzhen LCS Compliance Testing Laboratory Ltd. has not done any modification on the EUT.

3.6 Test Setup

Please refer to the test setup photo.

4. SUMMARY OF TEST RESULTS

Applied Standard: FCC Part 15 Subpart C		
FCC Rules	Description of Test	Result
§15.35(c)	Timing of the transmitter (Duty cycle correction factor)	Compliant
§2.1049	Bandwidth of the modulated carrier	Compliant
§15.209	Field strength of fundamental	Compliant
§15.209(a)	Field strength of harmonics and spurious	Compliant
§15.107/§15.207	Conducted Emissions	Compliant

5. SUMMARY OF TEST EQUIPMENT

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1	Power Sensor	R&S	NRV-Z51	100458	2016-06-18	2017-06-17
2	Power Sensor	R&S	NRV-Z32	10057	2016-06-18	2017-06-17
3	Power Meter	R&S	NRVS	100444	2016-06-18	2017-06-17
4	DC Filter	MPE	23872C	N/A	2016-06-18	2017-06-17
5	RF Cable	Harbour Industries	1452	N/A	2016-06-18	2017-06-17
6	SMA Connector	Harbour Industries	9625	N/A	2016-06-18	2017-06-17
7	Spectrum Analyzer	Agilent	N9020A	MY50510140	2016-10-27	2017-10-26
8	Signal analyzer	Agilent	E4448A(External mixers to 40GHz)	US44300469	2016-06-16	2017-06-15
9	RF Cable	Hubersuhne	Sucoflex104	FP2RX2	2016-06-18	2017-06-17
10	3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	2016-06-18	2017-06-17
11	Amplifier	SCHAFFNER	COA9231A	18667	2016-06-18	2017-06-17
12	Amplifier	Agilent	8449B	3008A02120	2016-06-16	2017-06-15
13	Amplifier	MITEQ	AMF-6F-260400	9121372	2016-06-16	2017-06-15
14	Loop Antenna	R&S	HFH2-Z2	860004/001	2016-06-18	2017-06-17
15	By-log Antenna	SCHWARZBECK	VULB9163	9163-470	2016-06-10	2017-06-09
16	Horn Antenna	EMCO	3115	6741	2016-06-10	2017-06-09
17	Horn Antenna	SCHWARZBECK	BBHA9170	BBHA9170154	2016-06-10	2017-06-09
18	RF Cable-R03m	Jye Bao	RG142	CB021	2016-06-18	2017-06-17
19	RF Cable-HIGH	SUHNER	SUCOFLEX 106	03CH03-HY	2016-06-18	2017-06-17
20	EMI Test Receiver	ROHDE & SCHWARZ	ESCI	101142	2016-06-18	2017-06-17
21	Artificial Mains	ROHDE & SCHWARZ	ENV216	101288	2016-06-18	2017-06-17
22	EMI Test Software	AUDIX	E3	N/A	2016-06-18	2017-06-17

6.MEASUREMENT RESULTS

6.1.Timing of the transmitter

Limit:

FCC	IC
Timing of the transmitter	
(c) Unless otherwise specified, e.g. Section 15.255(b), when the radiated emission limits are expressed in terms of the average value of the emission, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value. The exact method of calculating the average field strength shall be submitted with any application for certification or shall be retained in the measurement data file for equipment subject to notification or verification.	

Duty cycle of the sample test mode: 100%

In normal use the duty cycle is approximately 100%(declared by the manufacturer).

Result: Passed.

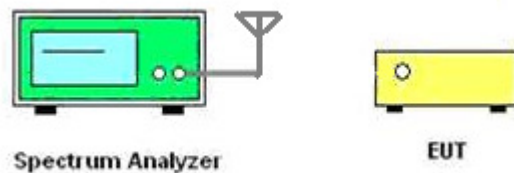
6.2. Bandwidth of modulated carrier

Limits:

FCC	IC
Bandwidth of the modulated carrier	

Measured with the integrated OBW-function of the spectrum analyser (measurement criteria is the integrated power in %)

6.2.1 Block Diagram of Test Setup



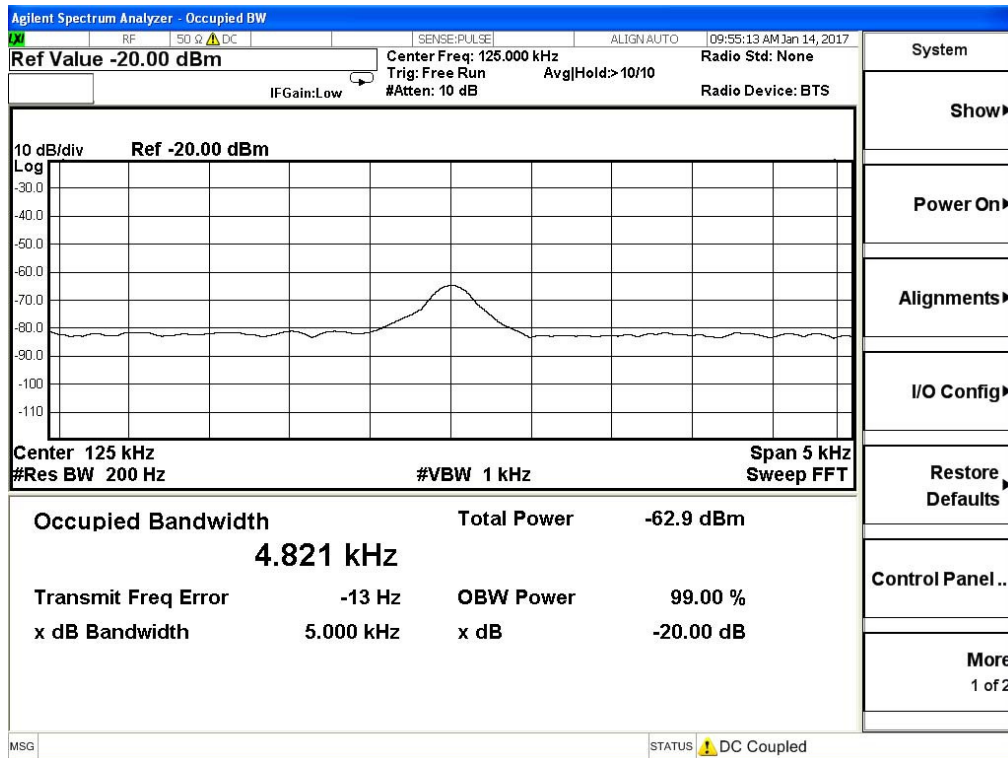
6.2.3 Test Procedure

Frequency separation test procedure :

- 1). Place the EUT on the table, keep it close to the SA and set it in transmitting mode.
- 2). Connect a radiated antenna to the SA and then set the center frequency of Spectrum Analyzer to 125 KHz.
- 3). Set the Spectrum Analyzer as RBW = 200 Hz, VBW = 1 kHz, Span = wide enough to capture the peak channel, Sweep = auto.
- 4). Max hold

Result:

Occupied Bandwidth(KHz)	
99%	4.821



6.3. Radio Emission

6.3.1. Standard Applicable

15.205 (a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
1\ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(12\)
13.36-13.41			

1\ Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

2\ Above 38.6

According to §15.247 (d): 20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
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

6.3.2. Measuring Instruments and Setting

Please refer to section 6 of equipment list in this report. The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10 th 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

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

6.3.3. Test Procedures

1) Sequence of testing 9 kHz to 30 MHz

Setup:

- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- If the EUT is a tabletop system, a rotatable table with 0.8 m height is used.
- If the EUT is a floor standing device, it is placed on the ground.
- Auxiliary equipment and cables were positioned to simulate normal operation conditions.
- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- The measurement distance is 3 meter.
- The EUT was set into operation.

Premeasurement:

- The turntable rotates from 0° to 315° using 45° steps.
- The antenna height is 0.8 meter.
- At each turntable position the analyzer sweeps with peak detection to find the maximum of all emissions

Final measurement:

- Identified emissions during the premeasurement the software maximizes by rotating the turntable position (0° to 360°) and by rotating the elevation axes (0° to 360°).
- The final measurement will be done in the position (turntable and elevation) causing the highest emissions with QPK detector.
- The final levels, frequency, measuring time, bandwidth, turntable position, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement and the limit will be stored.

2) Sequence of testing 30 MHz to 1 GHz

Setup:

- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- If the EUT is a tabletop system, a table with 0.8 m height is used, which is placed on the ground plane.
- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
- Auxiliary equipment and cables were positioned to simulate normal operation conditions
- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- The measurement distance is 3 meter.
- The EUT was set into operation.

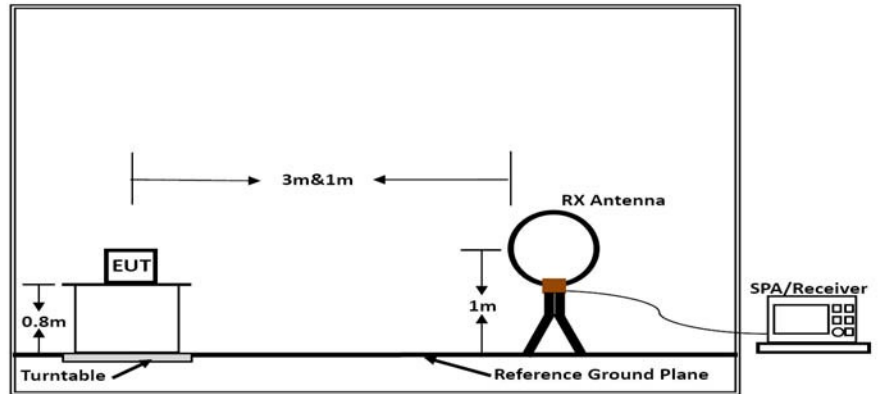
Premeasurement:

- The turntable rotates from 0° to 315° using 45° steps.
- The antenna is polarized vertical and horizontal.
- The antenna height changes from 1 to 3 meter.
- At each turntable position, antenna polarization and height the analyzer sweeps three times in peak to find the maximum of all emissions.

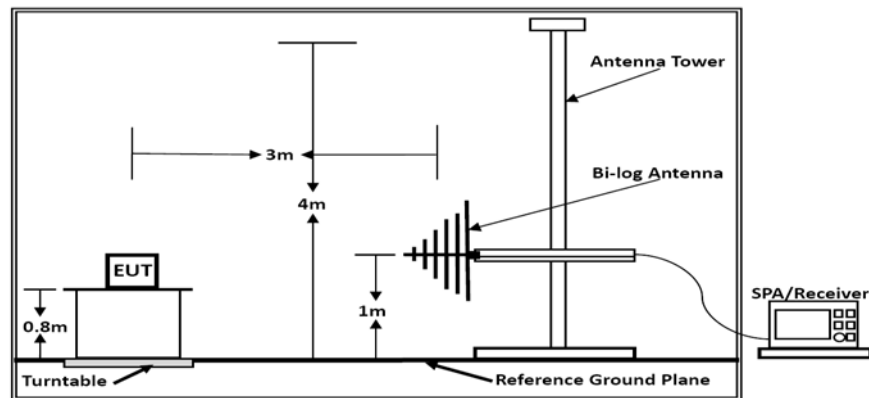
Final measurement:

- The final measurement will be performed with minimum the six highest peaks.
- According to the maximum antenna and turntable positions of premeasurement the software maximize the peaks by changing turntable position ($\pm 45^\circ$) and antenna movement between 1 and 4 meter.
- The final measurement will be done with QP detector with an EMI receiver.
- The final levels, frequency, measuring time, bandwidth, antenna height, antenna polarization, turntable angle, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement with marked maximum final measurements and the limit will be stored.

6.3.4. Test Setup Layout



Below 30MHz



Below 1GHz

Above 10 GHz shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade from 3m to 1.5m.

Distance extrapolation factor = $20 \log (\text{specific distance [3m]} / \text{test distance [1.5m]})$ (dB);

Limit line = specific limits (dBuV) + distance extrapolation factor [6 dB].

6.3.5. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

6.3.6. Filed strength of the fundamental(9 kHz~30MHz)

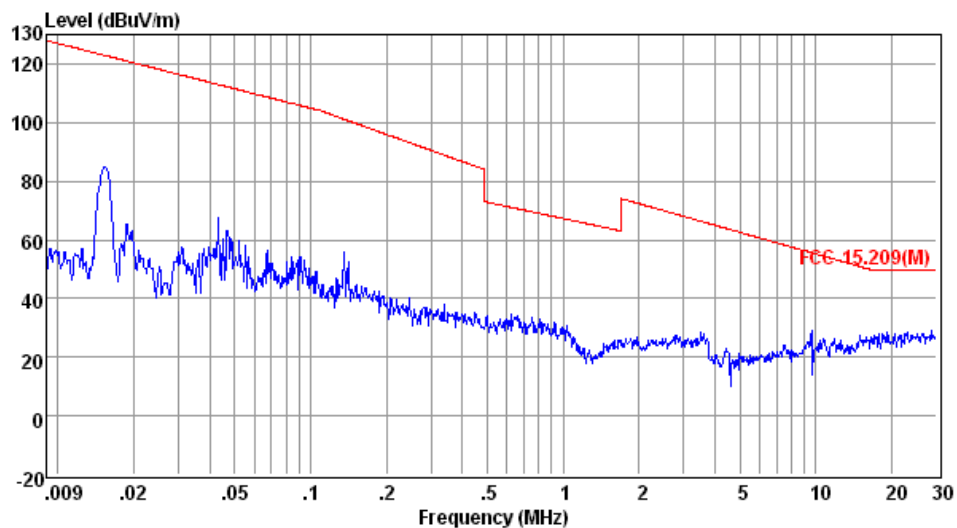
Measurement parameter	
Detector:	AVG
Resolution bandwidth	10KHz
Trace-Mode:	Max Hold

Limits:

Fundamental Frequency (MHz)	Field strength of Fundamental (db μ v/m)	Limit at 3m (db μ v/m)	Measurement distance (m)
125KHz	82.49	105.67	3

Result: Passed

Plots harmonic and spurious:



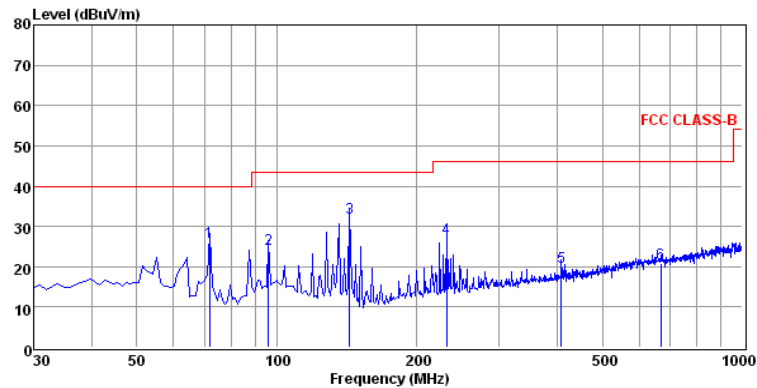
Distance extrapolation factor = $40 \log (\text{specific distance} / \text{test distance})$ (dB);
 Limit line = specific limits (dBuV) + distance extrapolation factor.

PASS.

Only record the worst test result in this report.

The test data please refer to following page.

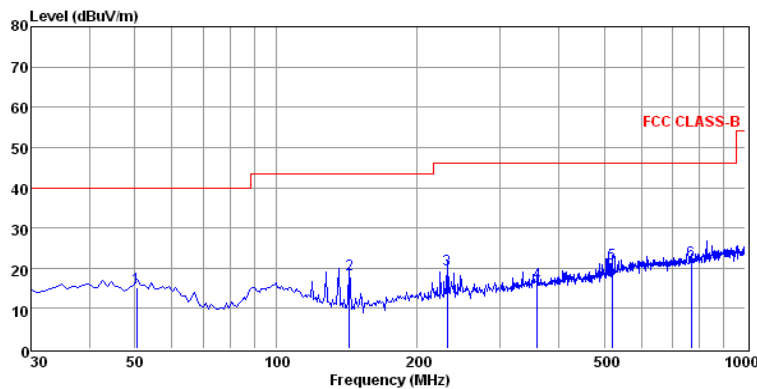
Below 1GHz



Env./Ins: 24°C/56%
 pol: HORIZONTAL

	Freq	Reading	CabLos	Antfac	Measured	Limit	Over	Remark
	MHz	dBm	dB	dB/m	dBm	dBm	dB	
1	71.71	17.35	0.55	8.36	26.26	40.00	-13.74	QP
2	95.96	11.02	0.58	12.90	24.50	43.50	-19.00	QP
3	143.49	23.16	0.71	8.21	32.08	43.50	-11.42	QP
4	231.76	14.47	0.98	11.72	27.17	46.00	-18.83	QP
5	408.30	3.44	1.17	15.23	19.84	46.00	-26.16	QP
6	667.29	0.54	1.71	18.69	20.94	46.00	-25.06	QP

Note: 1. All readings are Quasi-peak values.
 2. Measured= Reading + Antenna Factor + Cable Loss
 3. The emission that are 20dB below the official limit are not reported



Env./Ins: 24°C/56%
 pol: VERTICAL

	Freq	Reading	CabLos	Antfac	Measured	Limit	Over	Remark
	MHz	dBm	dB	dB/m	dBm	dBm	dB	
1	50.37	1.38	0.54	13.23	15.15	40.00	-24.85	QP
2	143.49	9.41	0.71	8.21	18.33	43.50	-25.17	QP
3	231.76	6.94	0.98	11.72	19.64	46.00	-26.36	QP
4	359.80	0.80	1.18	14.43	16.41	46.00	-29.59	QP
5	519.85	2.73	1.47	16.95	21.15	46.00	-24.85	QP
6	766.23	0.26	1.71	19.64	21.61	46.00	-24.39	QP

Note: 1. All readings are Quasi-peak values.
 2. Measured= Reading + Antenna Factor + Cable Loss
 3. The emission that are 20dB below the official limit are not reported

6.4. Power line conducted emissions

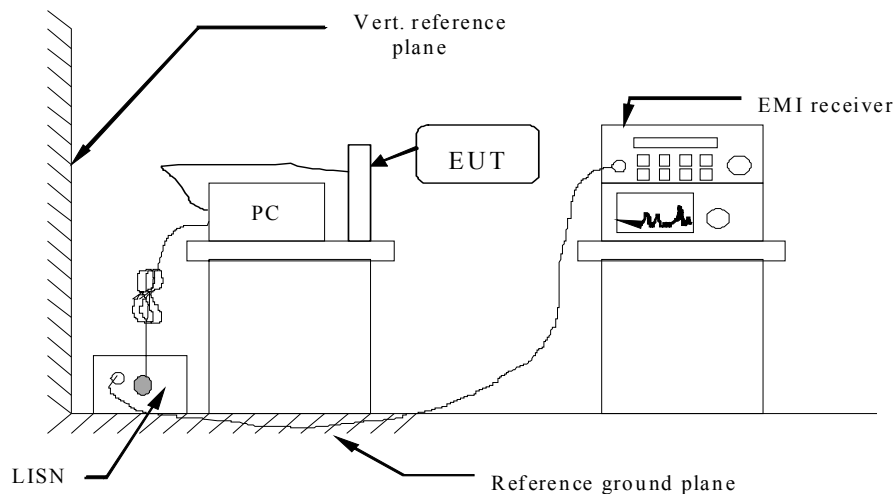
6.4.1 Standard Applicable

According to §15.207 (a): For an intentional radiator which is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed 250 microvolts (The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz). The limits at specific frequency range is listed as follows:

Frequency Range (MHz)	Limits (dB μ V)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

* Decreasing linearly with the logarithm of the frequency

6.4.2 Block Diagram of Test Setup

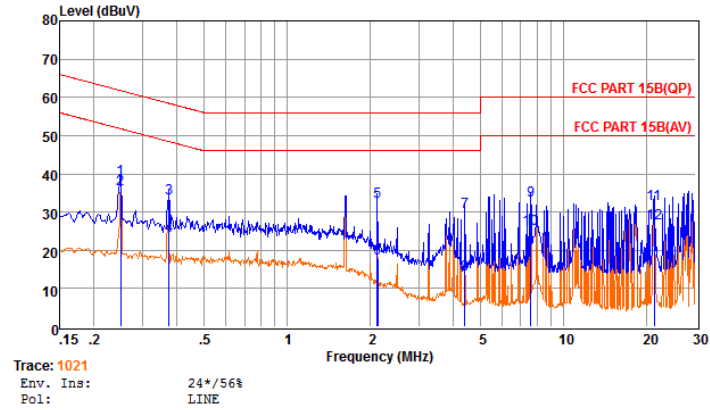


6.4.3 Test Results

PASS.

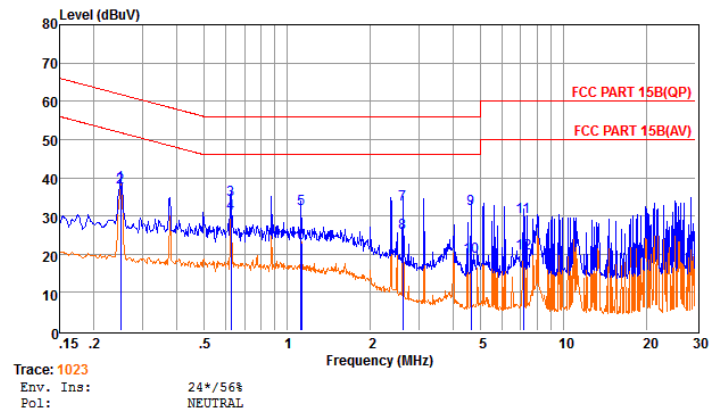
The test data please refer to following page.

Test Results



	Freq	Reading	LISNFac	CabLos	Aux2Fac	Measured	Limit	Over	Remark
	MHz	dBuV	dB	dB	dB	dB	dBuV	dBuV	dB
1	0.25	18.94	9.63	0.03	10.00	38.60	61.78	-23.18	QP
2	0.25	16.47	9.63	0.03	10.00	36.13	51.77	-15.64	Average
3	0.37	13.90	9.62	0.04	10.00	33.56	58.43	-24.87	QP
4	0.37	4.04	9.62	0.04	10.00	23.70	48.43	-24.73	Average
5	2.12	13.05	9.64	0.05	10.00	32.74	56.00	-23.26	QP
6	2.12	-1.98	9.64	0.05	10.00	17.71	46.00	-28.29	Average
7	4.38	10.27	9.65	0.06	10.00	29.98	56.00	-26.02	QP
8	4.38	-6.07	9.65	0.06	10.00	13.64	46.00	-32.36	Average
9	7.61	13.13	9.68	0.07	10.00	32.88	60.00	-27.12	QP
10	7.61	5.76	9.68	0.07	10.00	25.51	50.00	-24.49	Average
11	21.26	12.34	9.73	0.12	10.00	32.19	60.00	-27.81	QP
12	21.26	7.24	9.73	0.12	10.00	27.09	50.00	-22.91	Average

Remarks: 1. Measured = Reading +Cable Loss +Aux2 Fac.
2. The emission levels that are 20dB below the official limit are not reported.



	Freq	Reading	LISNFac	CabLos	Aux2Fac	Measured	Limit	Over	Remark
	MHz	dBuV	dB	dB	dB	dB	dBuV	dBuV	dB
1	0.25	18.51	9.60	0.03	10.00	38.14	61.78	-23.64	QP
2	0.25	17.86	9.60	0.03	10.00	37.49	51.77	-14.28	Average
3	0.63	14.61	9.63	0.04	10.00	34.28	56.00	-21.72	QP
4	0.63	10.99	9.63	0.04	10.00	30.66	46.00	-15.34	Average
5	1.12	12.25	9.63	0.05	10.00	31.93	56.00	-24.07	QP
6	1.12	3.35	9.63	0.05	10.00	23.03	46.00	-22.97	Average
7	2.62	13.46	9.64	0.05	10.00	33.15	56.00	-22.85	QP
8	2.62	6.03	9.64	0.05	10.00	25.72	46.00	-20.28	Average
9	4.62	12.07	9.66	0.06	10.00	31.79	56.00	-24.21	QP
10	4.62	-0.30	9.66	0.06	10.00	19.42	46.00	-26.58	Average
11	7.14	10.10	9.69	0.07	10.00	29.86	60.00	-30.14	QP
12	7.14	0.40	9.69	0.07	10.00	20.16	50.00	-29.84	Average

Remarks: 1. Measured = Reading +Cable Loss +Aux2 Fac.
2. The emission levels that are 20dB below the official limit are not reported.

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