AUDIX Technology (Shenzhen) Co., Ltd.
52 Block, Shenzhen Science & Industry Park,
Nantou, Shenzhen, Guangdong, China

Tel : 0755-26639495~6
Fax : 0755-26632877

Technical Compliance Statement

No. ACS-F15268

FCC Verification

For the following equipment

Submitter : **Chongqing Xiegu Technology Co., Ltd.**

7-6 Incubator Building, No.256, Fangzheng Avenue, Shuitu High-tech Park, Beibei District, Chongqing, China

Product : **HF TRANSCEIVER**

Model Number : **X108G**

We hereby certify that the above product has been tested by us and complied with the FCC official limits. These products might be marketed at the US accordance to FCC Rule based on the standard 47 CFR Part 2 and Part 15 Class B Equipment Regulations. The test was performed accordance to the procedures from ANSI C63.4-2009. The test data & results are issued on the test report no. ACS-F15268.

AUDIX® 信華科技（深圳）有限公司
Audix Technology (Shenzhen) Co., Ltd.
EMC 部門報告專用章
Stamp only for EMC Dept. Report
Signature: David Jin

NVLAP®
Lab. Code: 200372-0

David Jin
Manager
Date: Sep.24, 2015

The statement is based on a single evaluation of one sample of above mentioned product. It does not imply an assessment of the whole production and does not permit the use of the test lab. Logo.

APPLICATION OF VERIFICATION

for

Chongqing Xiegu Technology Co., Ltd.

HF TRANSCEIVER

Model Number：X108G

Prepared for: Chongqing Xiegu Technology Co., Ltd.
7-6 Incubator Building, No.256, Fangzheng Avenue, Shuitu
High-tech Park, Beibei District, Chongqing, China

Prepared By: Audix Technology (Shenzhen) Co., Ltd.
No. 6, Ke Feng Rd., 52 Block,
Shenzhen Science & Industrial Park,
Nantou, Shenzhen, Guangdong, China

Tel: (0755) 26639496
Fax: (0755) 26632877

Report Number	:	ACS-F15268
Date of Test	:	Sep.18~20, 2015
Date of Report	:	Sep.23, 2015

TABLE OF CONTENTS

TEST REPORT VERIFICATION

Applicant : Chongqing Xiegu Technology Co., Ltd.

Manufacturer : Chongqing Xiegu Technology Co., Ltd.

EUT Description : HF TRANSCEIVER

(A) Model No. : X108G
(B) Power Supply : DC 12V
(C) Test Voltage : DC 12V

Measurement Standard Used:

FCC CFR47 Part 15 Subpart B Class B 2014. ANSI C63.4: 2009

The device described above is tested by AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. To determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart B Class B limits both radiated and conducted emissions. The test results are contained in this test report and AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. Is assumed full responsibility for the accuracy and completeness of these tests. This report contains data that are not covered by the NVLAP accreditation.

After the test, our opinion is that EUT compliance with the requirement of the above standards.

This Report is made under FCC Part 2.1075. No modifications were required during testing to bring this product into compliance.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government.

Date of Test : Sep.18~20, 2015 Report of date: Sep.24, 2015

Prepared by : Kayli He
Kayli He / Assistant

Reviewed by :
Sworddance Wu / Assistant Manager

AUDIX® 信華科技（深圳）有限公司
Audix Technology (Shenzhen) Co., Ltd.
EMC 部門報告專用章
Stamp only for EMC Dept. Report

Approved & Authorized Signer : Signature: David Jin
David Jin / Manager

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**	**Results**	**Remarks**
Power Line Conducted Emission Test	FCC Part 15: 2014 ANSI C63.4: 2009	PASS	Meets Class B Limit Minimum passing margin is 16.31dB at 0.727MHz
Radiated Emission Test (30-1000MHz)	FCC Part 15: 2014 ANSI C63.4: 2009	PASS	Meets Class B Limit Minimum passing margin is 14.40 dB at 212.360MHz

2. GENERAL INFORMATION

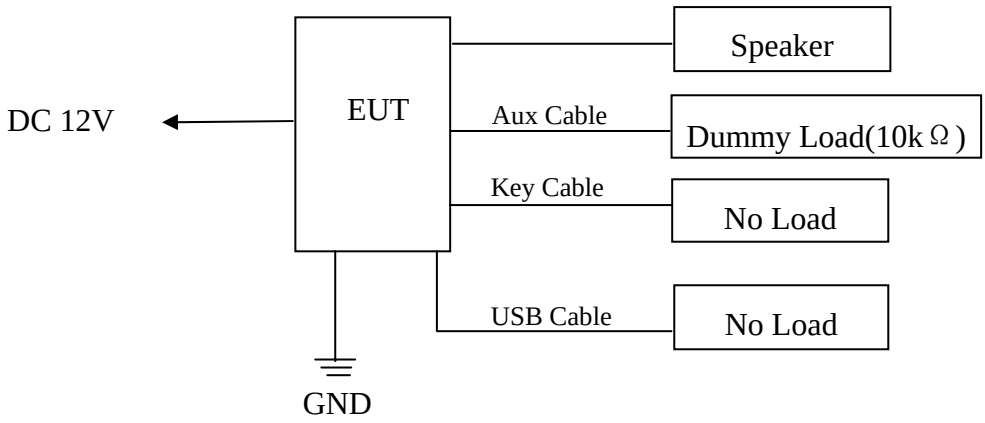
2.1. Description of Device (EUT)

Description	:	HF TRANSCEIVER
Model Number	:	X108G
Applicant	:	Chongqing Xiegu Technology Co., Ltd. 7-6 Incubator Building, No.256, Fangzheng Avenue, Shuitu High-tech Park, Beibei District, Chongqing, China
Manufacturer	:	Chongqing Xiegu Technology Co., Ltd. 7-6 Incubator Building, No.256, Fangzheng Avenue, Shuitu High-tech Park, Beibei District, Chongqing, China
Factory	:	Chongqing Xiegu Technology Co., Ltd. 7-6 Incubator Building, No.256, Fangzheng Avenue, Shuitu High-tech Park, Beibei District, Chongqing, China
Date of Test	:	Sep.18~20, 2015
Date of Receipt	:	Sep.16, 2015
Sample Type	:	Prototype production

2.2.Tested Supporting System Details

No.	Description	ACS No.	Manufacturer	Model	Serial Number
1.	Speaker	N/A	Acer	9M-20A200-000	N/A

2.3.Block diagram of connection between the EUT and simulators



(EUT: HF TRANSCEIVER)

2.4. Test Facility

Site Description

Name of Firm	:	Audix Technology (Shenzhen) Co., Ltd. No. 6, Ke Feng Rd., 52 Block, Shenzhen Science & Industrial Park,Nantou, Shenzhen, Guangdong, China
3m Anechoic Chamber	:	Certificated by FCC, USA Registration Number: 90454 Valid Date: Dec. 30, 2017
3m & 10m Anechoic Chamber	:	Certificated by FCC, USA Registration Number: 794232 Valid Date: Jul.12, 2016
EMC Lab.	:	Certificated by DAkkS, Germany Registration No: D-PL-12151-01-00 Valid Date: Dec.15, 2016 Accredited by NVLAP, USA NVLAP Code: 200372-0 Valid Date: Mar. 31, 2016

2.5. Measurement Uncertainty

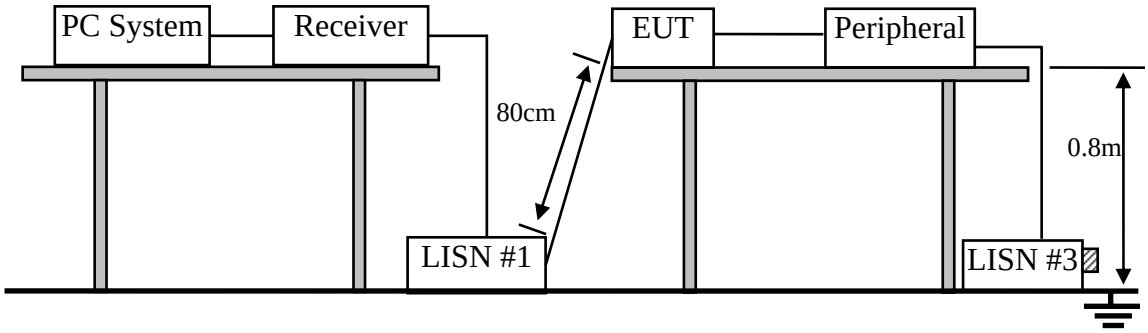
Test Item	Uncertainty
Uncertainty for Conduction emission test in No. 1 Conduction	3.4dB(150kHz to 30MHz)
Uncertainty for Radiation Emission test in 3m chamber	3.0dB(30~200MHz, Polarization: H)
	3.0dB(30~200MHz, Polarization: V)
	3.2dB(200M~1GHz, Polarization: H)
	3.1dB(200M~1GHz, Polarization: V)
Uncertainty for test site temperature and humidity	3%
	0.6℃

3. POWER LINE CONDUCTED EMISSION MEASUREMENT

3.1. Test Equipments

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	1# Shielding Room	AUDIX	N/A	N/A	Apr.17,15	1 Year
2.	Test Receiver	Rohde & Schwarz	ESHS10	838693/001	Oct.29,14	1 Year
3.	L.I.S.N.#1	Rohde & Schwarz	ESH2-Z5	100429	Oct.29,14	1 Year
4.	L.I.S.N.#3	Kyoritsu	KNW-242C	8-1920-1	Apr.28,15	1 Year
5.	Terminator	Hubersuhner	50Ω	No.1	Apr.28,15	1 Year
6.	Terminator	Hubersuhner	50Ω	No.2	Apr.28,15	1 Year
7.	RF Cable	Hubersuhner	RG58	0100.6954.20#	Oct.29,14	1Year
8.	Coaxial Switch	Anritsu	MP59B	6200298346	Apr.28,15	1 Year
9.	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	101838	Oct.29,14	1 Year
10.	Signal Generator	HP	8648A	3625U00573	Apr.28,15	1 Year
11.	Pattern Generator	Philips	PM5418	LO625020	Apr.28,15	1 Year
12.	Test Software	AUDIX	E3	6.2009-6-3(n)	N/A	N/A

3.2. Block Diagram of Test Setup



▨ :50Ω Terminator

3.3. Power Line Conducted Emission Limits

Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level dB(μV)	Average Level dB(μV)
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*
500kHz ~ 5MHz	56	46
5MHz ~ 30MHz	60	50

Notes: 1. * Decreasing linearly with logarithm of frequency.
2. The lower limit shall apply at the transition frequencies.

3.4. EUT 's Configuration during Compliance Measurement

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

3.4.1. HF TRANSCEIVER (EUT)

Model Number : X108G
Serial Number : N/A

3.4.2. Support Equipment : As Tested Supporting System Detail, in Section 2.2.

3.5. Operating Condition of EUT

3.5.1. Setup the EUT and simulator as shown as Section 3.2.

3.5.2. Turn on the power of all equipments.

3.5.3. Let the EUT worked in test modes (Data Transmitting / USB Charge / Charge & Discharge) and test it. it.

3.6. Test Procedure

The EUT was placed on a non-metallic table, 80cm above the ground plane. The EUT Power connected to the power mains through a line impedance stabilization network (L.I.S.N. #1). This provided a 50-ohm coupling impedance for the EUT (Please refer to the block diagram of the test setup and photographs). The other peripheral devices power cord connected to the power mains through a line impedance stabilization network (L.I.S.N. #3).Both sides of power line were checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.4: 2009 on conducted Emission test.

The bandwidth of the R&S Test Receiver ESHS10 was set at 10kHz.

The frequency range from 150kHz to 30MHz is checked. The test results are reported on Section 3.7.

3.7. Power Line Conducted Emission Measurement Results

PASS. (All emissions not reported below are too low against the prescribed limits.)

The EUT with the following test modes were tested and selected (No. 1~3) to read Q.P values, all the test results are listed in next pages.

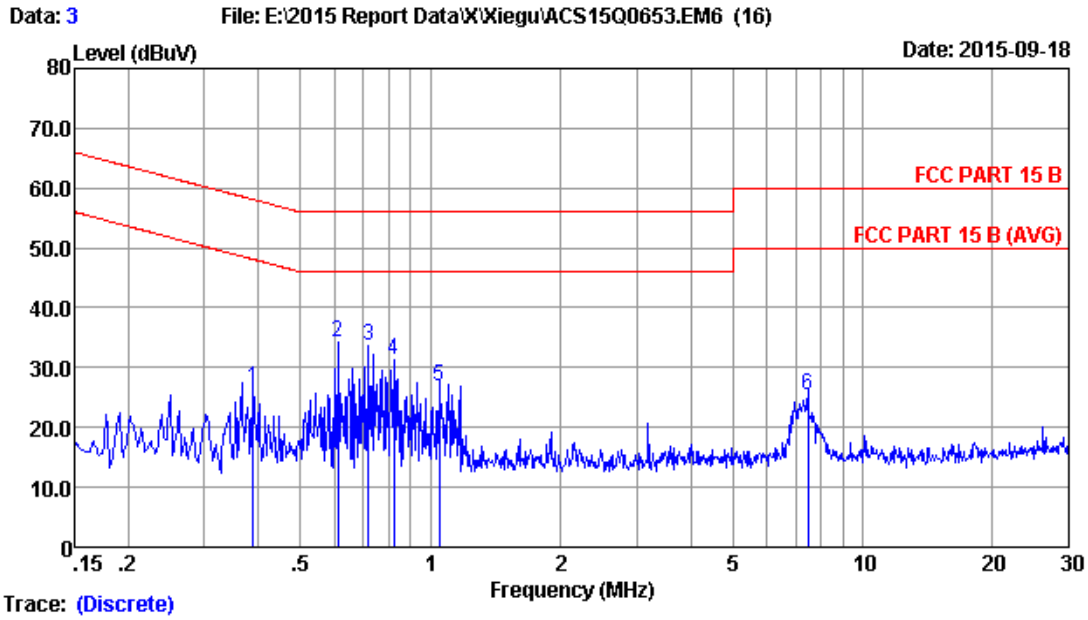
EUT: HF TRANSCEIVER Model No. : X108G

Test Date: Sep.18, 2015 Temperature: 22.7℃ Humidity: 42%

The details of test modes are as follows：

No.	Test Mode		Reference Test Data No.	
			Line	Neutral
1.	Transmit	CW	#3	#4
2.		AM	#5	#6
3.		LSB	#9	#10
4.		USB	#13	#14
5.		USB	#15	#16
6.※	**Receiver**	**CW**	**#1**	**#2**
7.		AM	#7	#8
8.		LSB	#11	#12

(※ Worst test mode)



Trace: (Discrete)

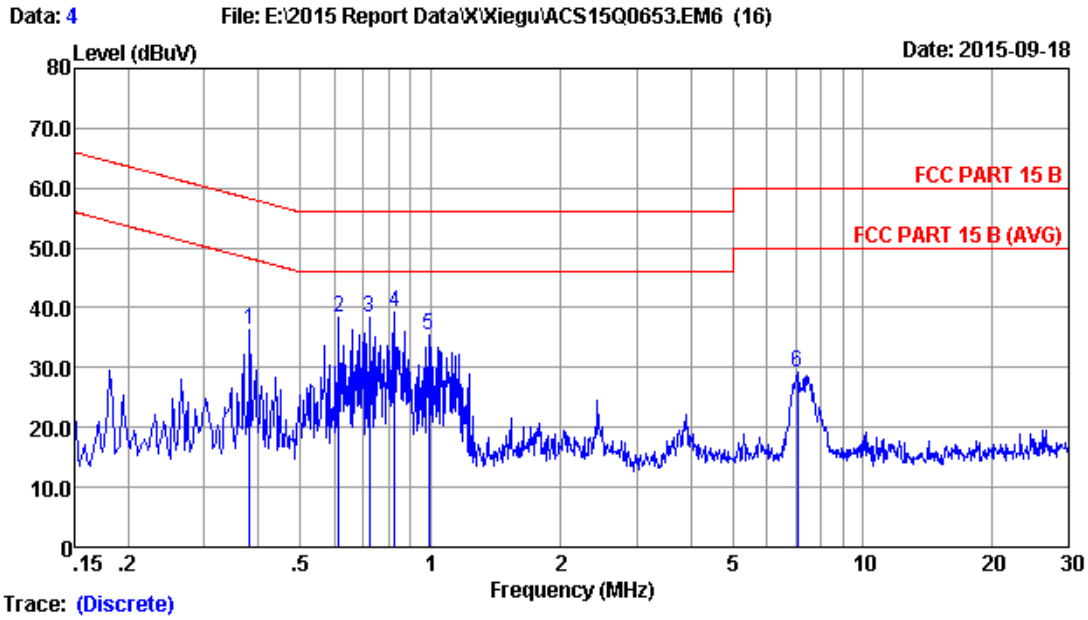
Site no :1# Conduction
Dis./Lisn :2014 ESH3-Z6 022
Limit :FCC PART 15 B
Env./Ins. :22.7*C/42%
EUT :HF TRANSCEIVER
Power Rating :DC 12V
Test Mode :CW(Transmit)
M/N:X108G

Data No :3

Engineer :Nick_Huang

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.389	0.35	9.94	16.31	26.60	58.08	31.48	QP
2	0.611	0.35	9.94	23.85	34.14	56.00	21.86	QP
3	0.720	0.35	9.95	23.43	33.73	56.00	22.27	QP
4	0.822	0.35	9.95	21.09	31.39	56.00	24.61	QP
5	1.049	0.34	9.96	16.53	26.83	56.00	29.17	QP
6	7.486	0.38	10.09	14.87	25.34	60.00	34.66	QP

Remarks: 1.Emission Level=LISN Factor+Cable Loss(Include 10dB pulse limit)+Reading.
2.If the average limit is met when using a quasi-peak detector.
the EUT shall be deemed to meet both limits and measurement
with average detector is unnecessary.



Trace: (Discrete)

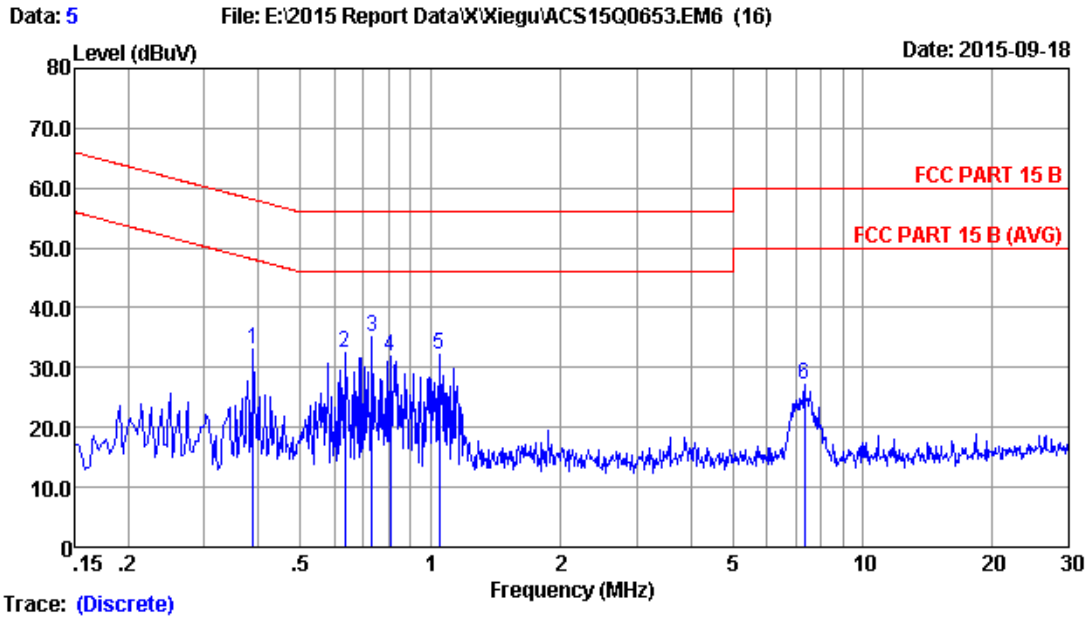
Site no :1# Conduction
Dis./Lisn :2014 ESH3-Z6 023
Limit :FCC PART 15 B
Env./Ins. :22.7*C/42%
EUT :HF TRANSCEIVER
Power Rating :DC 12V
Test Mode :CW(Transmit)
M/N:X108G

Data No :4

Engineer :Nick_Huang

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.381	0.35	9.94	26.13	36.42	58.25	21.83	QP
2	0.614	0.35	9.94	28.11	38.40	56.00	17.60	QP
3	0.724	0.35	9.95	28.05	38.35	56.00	17.65	QP
4	0.826	0.35	9.95	28.85	39.15	56.00	16.85	QP
5	0.989	0.34	9.96	25.08	35.38	56.00	20.62	QP
6	7.062	0.37	10.09	18.80	29.26	60.00	30.74	QP

Remarks: 1.Emission Level=LISN Factor+Cable Loss(Include 10dB pulse limit)+Reading.
2.If the average limit is met when using a quasi-peak detector.
the EUT shall be deemed to meet both limits and measurement
with average detector is unnecessary.



Trace: (Discrete)

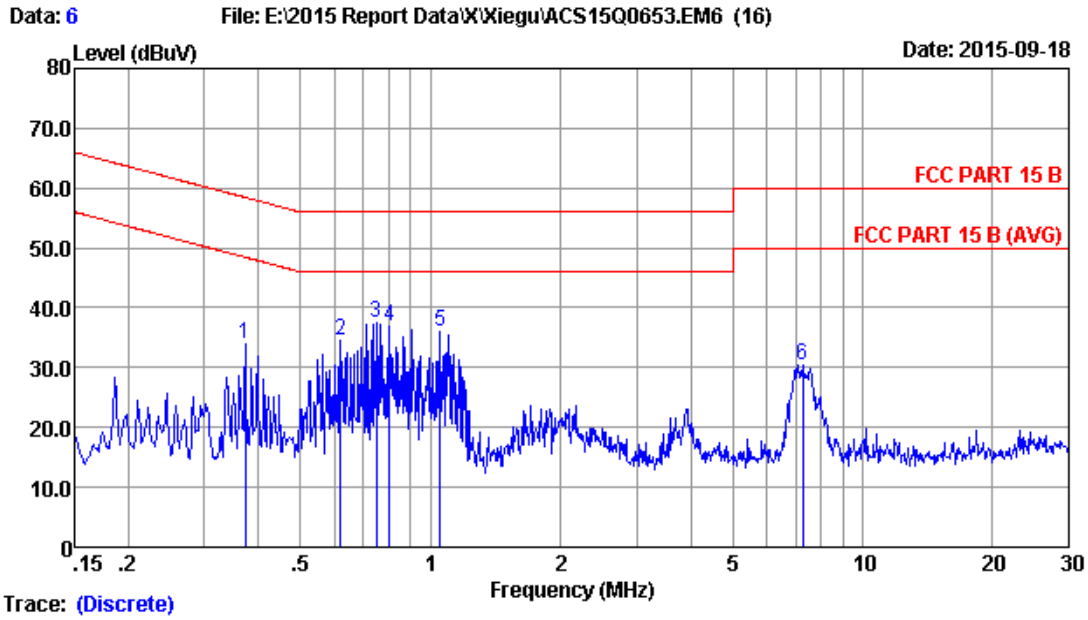
Site no :1# Conduction
Dis./Lisn :2014 ESH3-Z6 022
Limit :FCC PART 15 B
Env./Ins. :22.7*C/42%
EUT :HF TRANSCEIVER
Power Rating :DC 12V
Test Mode :AM(Transmit)
M/N:X108G

Data No :5

Engineer :Nick_Huang

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.389	0.35	9.94	22.84	33.13	58.08	24.95	QP
2	0.634	0.35	9.95	22.21	32.51	56.00	23.49	QP
3	0.731	0.35	9.95	24.69	34.99	56.00	21.01	QP
4	0.809	0.35	9.95	21.46	31.76	56.00	24.24	QP
5	1.049	0.34	9.96	21.95	32.25	56.00	23.75	QP
6	7.329	0.37	10.09	16.75	27.21	60.00	32.79	QP

Remarks: 1.Emission Level=LISN Factor+Cable Loss(Include 10dB pulse limit)+Reading.
2.If the average limit is met when using a quasi-peak detector.
the EUT shall be deemed to meet both limits and measurement
with average detector is unnecessary.



Trace: (Discrete)

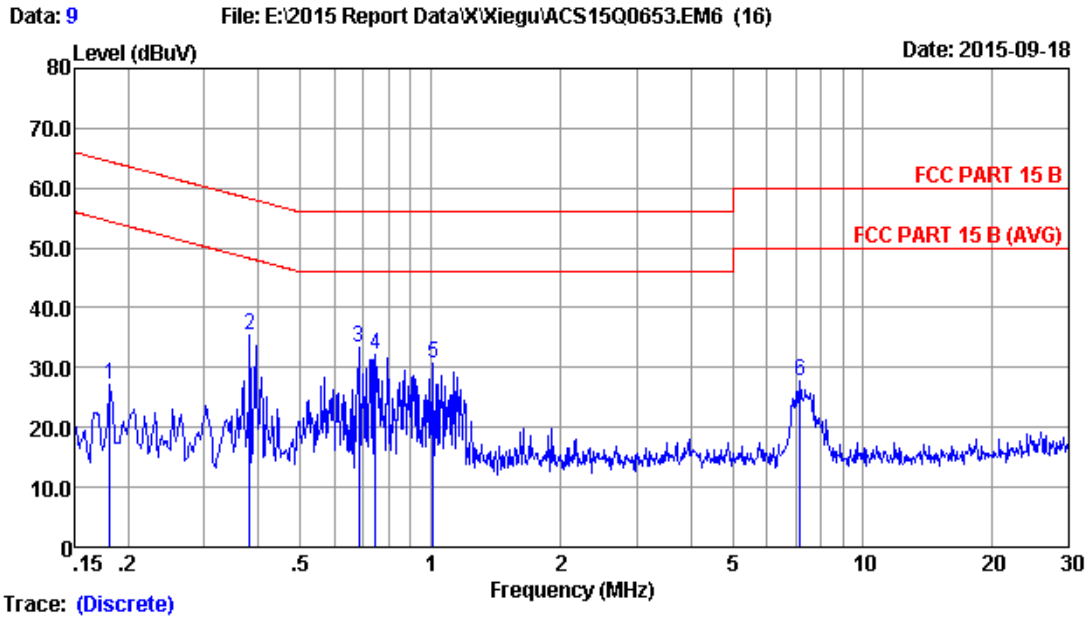
Site no :1# Conduction
Dis./Lisn :2014 ESH3-Z6 023
Limit :FCC PART 15 B
Env./Ins. :22.7*C/42%
EUT :HF TRANSCEIVER
Power Rating :DC 12V
Test Mode :AM(Transmit)
M/N:X108G

Data No :6

Engineer :Nick_Huang

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.373	0.35	9.94	23.64	33.93	58.43	24.50	QP
2	0.621	0.35	9.94	24.35	34.64	56.00	21.36	QP
3	0.751	0.35	9.95	27.31	37.61	56.00	18.39	QP
4	0.804	0.35	9.95	26.48	36.78	56.00	19.22	QP
5	1.054	0.34	9.96	25.78	36.08	56.00	19.92	QP
6	7.252	0.37	10.09	20.08	30.54	60.00	29.46	QP

Remarks: 1.Emission Level=LISN Factor+Cable Loss(Include 10dB pulse limit)+Reading.
2.If the average limit is met when using a quasi-peak detector.
the EUT shall be deemed to meet both limits and measurement
with average detector is unnecessary.



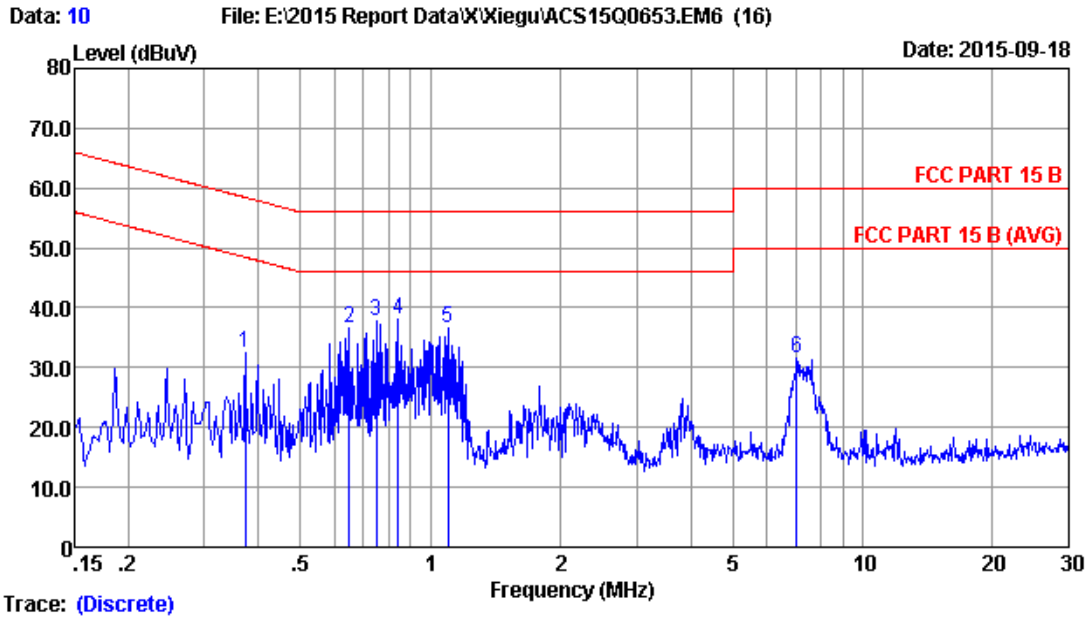
Trace: (Discrete)

Site no :1# Conduction
Dis./Lisn :2014 ESH3-Z6 022
Limit :FCC PART 15 B
Env./Ins. :22.7*C/42%
EUT :HF TRANSCEIVER
Power Rating :DC 12V
Test Mode :LSB(Transmit)
M/N:X108G

Data No :9
Engineer :Nick_Huang

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.182	0.37	9.93	16.88	27.18	64.42	37.24	QP
2	0.381	0.35	9.94	25.23	35.52	58.25	22.73	QP
3	0.683	0.35	9.95	23.18	33.48	56.00	22.52	QP
4	0.747	0.35	9.95	21.93	32.23	56.00	23.77	QP
5	1.016	0.34	9.96	20.44	30.74	56.00	25.26	QP
6	7.175	0.37	10.09	17.26	27.72	60.00	32.28	QP

Remarks: 1.Emission Level=LISN Factor+Cable Loss(Include 10dB pulse limit)+Reading.
2.If the average limit is met when using a quasi-peak detector.
the EUT shall be deemed to meet both limits and measurement
with average detector is unnecessary.



Trace: (Discrete)

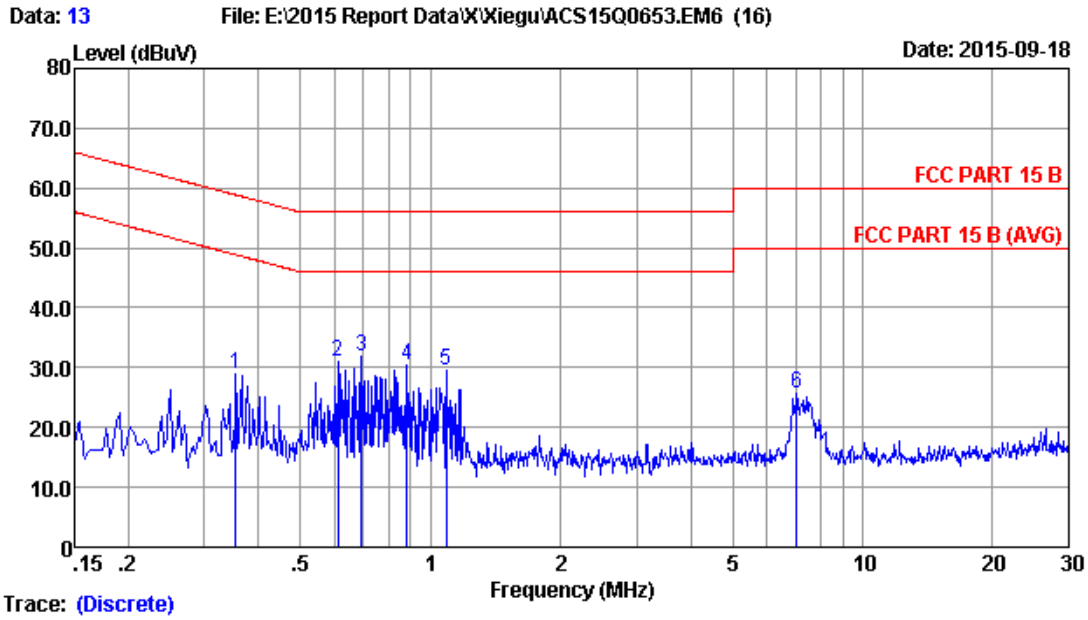
Site no :1# Conduction
Dis./Lisn :2014 ESH3-Z6 023
Limit :FCC PART 15 B
Env./Ins. :22.7*C/42%
EUT :HF TRANSCEIVER
Power Rating :DC 12V
Test Mode :LSB(Transmit)
M/N:X108G

Data No :10

Engineer :Nick_Huang

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.373	0.35	9.94	22.06	32.35	58.43	26.08	QP
2	0.647	0.35	9.95	26.17	36.47	56.00	19.53	QP
3	0.751	0.35	9.95	27.40	37.70	56.00	18.30	QP
4	0.844	0.34	9.95	27.76	38.05	56.00	17.95	QP
5	1.100	0.34	9.96	26.20	36.50	56.00	19.50	QP
6	7.025	0.37	10.09	21.09	31.55	60.00	28.45	QP

Remarks: 1.Emission Level=LISN Factor+Cable Loss(Include 10dB pulse limit)+Reading.
2.If the average limit is met when using a quasi-peak detector.
the EUT shall be deemed to meet both limits and measurement
with average detector is unnecessary.



Trace: (Discrete)

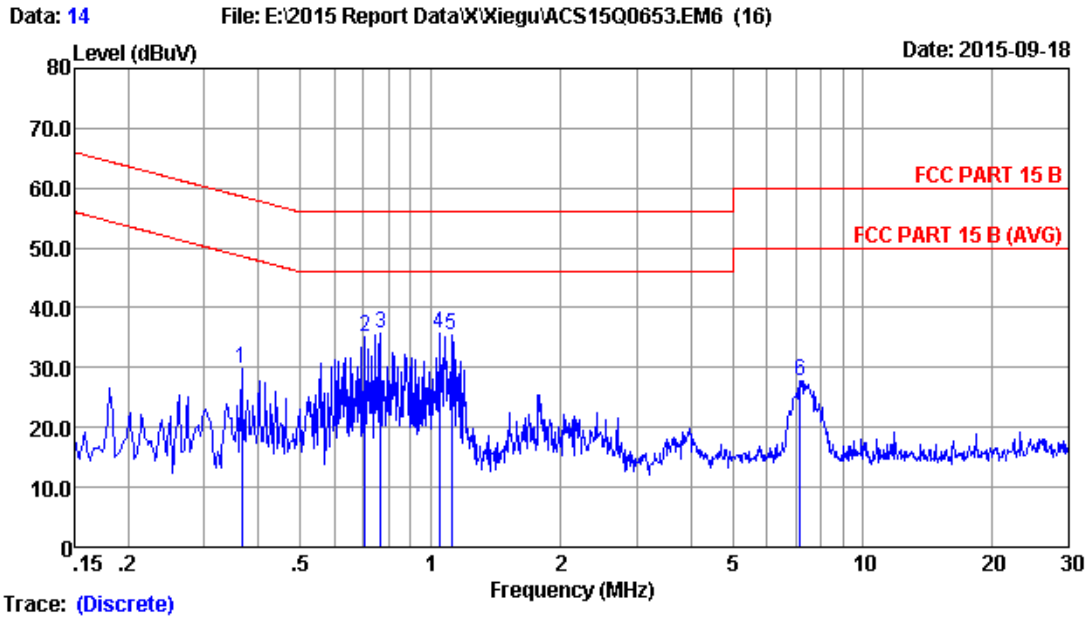
Site no :1# Conduction
Dis./Lisn :2014 ESH3-Z6 022
Limit :FCC PART 15 B
Env./Ins. :22.7*C/42%
EUT :HF TRANSCEIVER
Power Rating :DC 12V
Test Mode :USB(Transmit)
M/N:X108G

Data No :13

Engineer :Nick_Huang

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.354	0.35	9.93	18.66	28.94	58.87	29.93	QP
2	0.611	0.35	9.94	20.84	31.13	56.00	24.87	QP
3	0.694	0.35	9.95	21.66	31.96	56.00	24.04	QP
4	0.880	0.34	9.95	20.06	30.35	56.00	25.65	QP
5	1.088	0.34	9.96	19.31	29.61	56.00	26.39	QP
6	7.025	0.37	10.09	15.08	25.54	60.00	34.46	QP

Remarks: 1.Emission Level=LISN Factor+Cable Loss(Include 10dB pulse limit)+Reading.
2.If the average limit is met when using a quasi-peak detector.
the EUT shall be deemed to meet both limits and measurement
with average detector is unnecessary.



Trace: (Discrete)

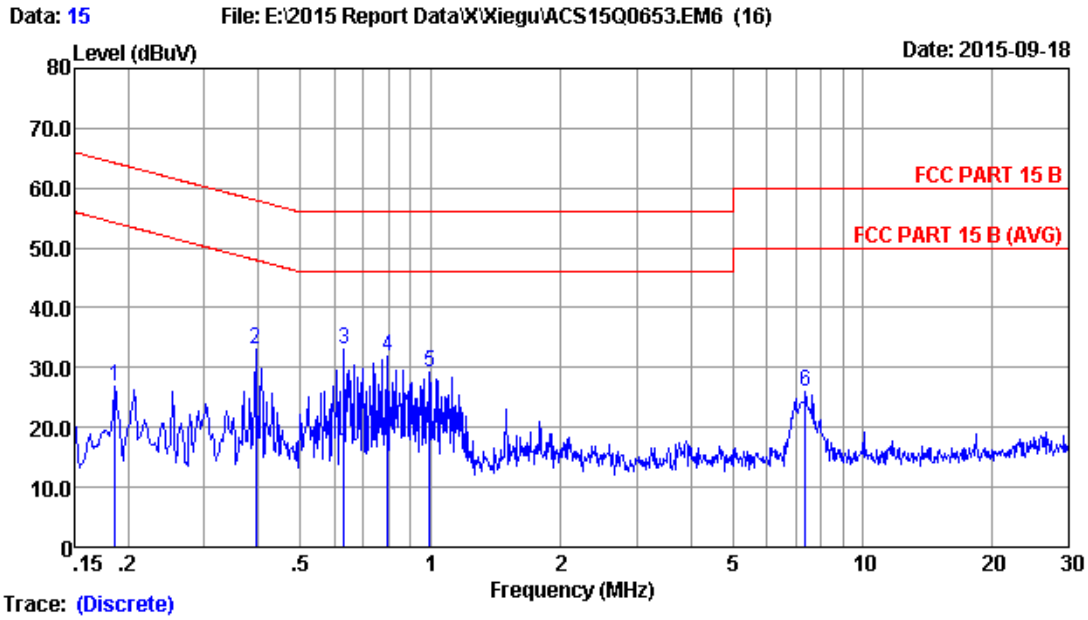
Site no :1# Conduction
Dis./Lisn :2014 ESH3-Z6 023
Limit :FCC PART 15 B
Env./Ins. :22.7*C/42%
EUT :HF TRANSCEIVER
Power Rating :DC 12V
Test Mode :USB(Transmit)
M/N:X108G

Data No :14

Engineer :Nick_Huang

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.365	0.35	9.94	19.42	29.71	58.61	28.90	QP
2	0.705	0.35	9.95	24.76	35.06	56.00	20.94	QP
3	0.767	0.35	9.95	25.30	35.60	56.00	20.40	QP
4	1.049	0.34	9.96	25.32	35.62	56.00	20.38	QP
5	1.117	0.34	9.96	25.19	35.49	56.00	20.51	QP
6	7.175	0.37	10.09	17.35	27.81	60.00	32.19	QP

Remarks: 1.Emission Level=LISN Factor+Cable Loss(Include 10dB pulse limit)+Reading.
2.If the average limit is met when using a quasi-peak detector.
the EUT shall be deemed to meet both limits and measurement
with average detector is unnecessary.



Trace: (Discrete)

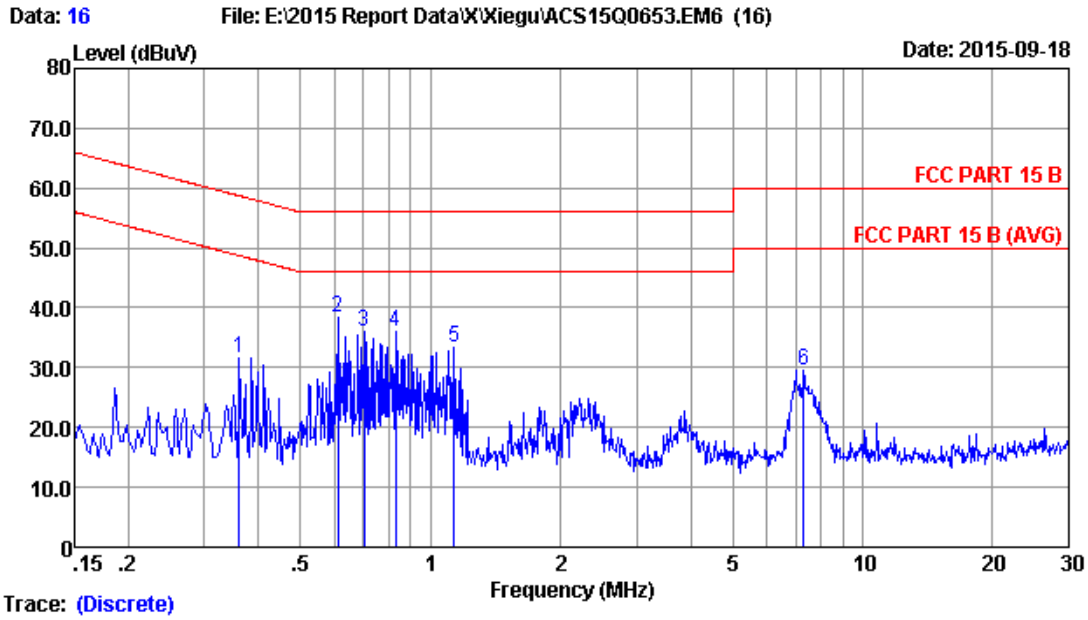
Site no :1# Conduction
Dis./Lisn :2014 ESH3-Z6 022
Limit :FCC PART 15 B
Env./Ins. :22.7*C/42%
EUT :HF TRANSCEIVER
Power Rating :DC 12V
Test Mode :USB(Transmit)
M/N:X108G

Data No :15

Engineer :Nick_Huang

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.186	0.36	9.93	16.69	26.98	64.20	37.22	QP
2	0.393	0.35	9.94	22.69	32.98	57.99	25.01	QP
3	0.630	0.35	9.95	22.71	33.01	56.00	22.99	QP
4	0.796	0.35	9.95	21.51	31.81	56.00	24.19	QP
5	0.994	0.34	9.96	18.90	29.20	56.00	26.80	QP
6	7.368	0.37	10.09	15.60	26.06	60.00	33.94	QP

Remarks: 1.Emission Level=LISN Factor+Cable Loss(Include 10dB pulse limit)+Reading.
2.If the average limit is met when using a quasi-peak detector.
the EUT shall be deemed to meet both limits and measurement
with average detector is unnecessary.



Trace: (Discrete)

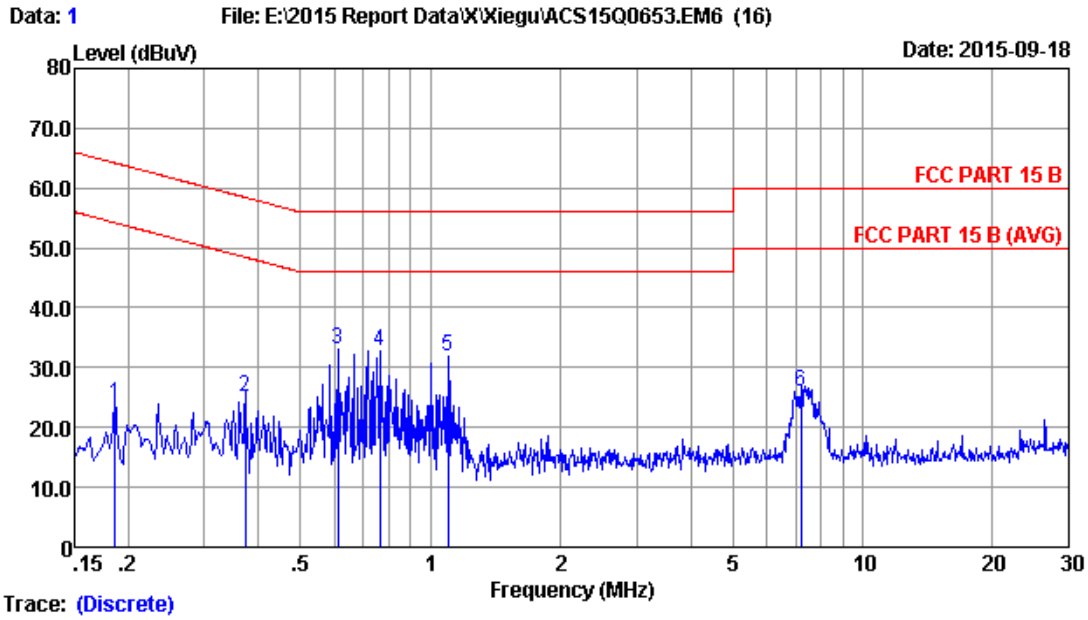
Site no :1# Conduction
Dis./Lisn :2014 ESH3-Z6 023
Limit :FCC PART 15 B
Env./Ins. :22.7*C/42%
EUT :HF TRANSCEIVER
Power Rating :DC 12V
Test Mode :USB(Transmit)
M/N:X108G

Data No :16

Engineer :Nick_Huang

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.361	0.35	9.94	21.29	31.58	58.69	27.11	QP
2	0.611	0.35	9.94	27.97	38.26	56.00	17.74	QP
3	0.701	0.35	9.95	25.85	36.15	56.00	19.85	QP
4	0.830	0.35	9.95	25.72	36.02	56.00	19.98	QP
5	1.135	0.34	9.96	23.18	33.48	56.00	22.52	QP
6	7.290	0.37	10.09	19.17	29.63	60.00	30.37	QP

Remarks: 1.Emission Level=LISN Factor+Cable Loss(Include 10dB pulse limit)+Reading.
2.If the average limit is met when using a quasi-peak detector.
the EUT shall be deemed to meet both limits and measurement
with average detector is unnecessary.



Trace: (Discrete)

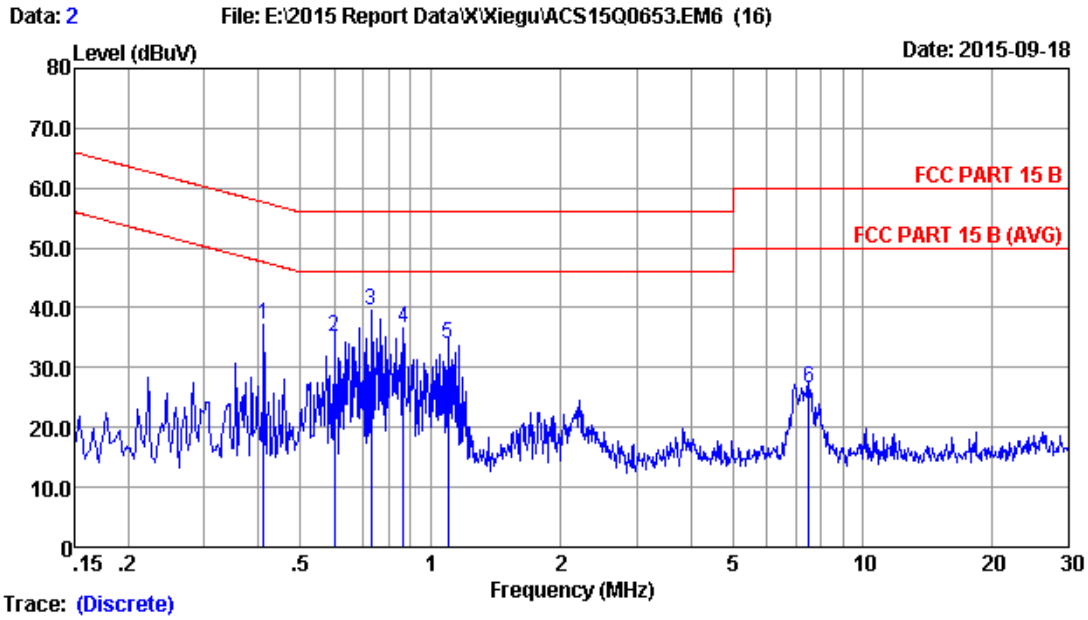
Site no :1# Conduction
Dis./Lisn :2014 ESH3-Z6 022
Limit :FCC PART 15 B
Env./Ins. :22.7*C/42%
EUT :HF TRANSCEIVER
Power Rating :DC 12V
Test Mode :CW(Receive)
M/N:X108G

Data No :1

Engineer :Nick_Huang

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.186	0.36	9.93	13.60	23.89	64.20	40.31	QP
2	0.373	0.35	9.94	14.75	25.04	58.43	33.39	QP
3	0.611	0.35	9.94	22.81	33.10	56.00	22.90	QP
4	0.763	0.35	9.95	22.45	32.75	56.00	23.25	QP
5	1.100	0.34	9.96	21.71	32.01	56.00	23.99	QP
6	7.213	0.37	10.09	15.44	25.90	60.00	34.10	QP

Remarks: 1.Emission Level=LISN Factor+Cable Loss(Include 10dB pulse limit)+Reading.
2.If the average limit is met when using a quasi-peak detector.
the EUT shall be deemed to meet both limits and measurement
with average detector is unnecessary.



Trace: (Discrete)

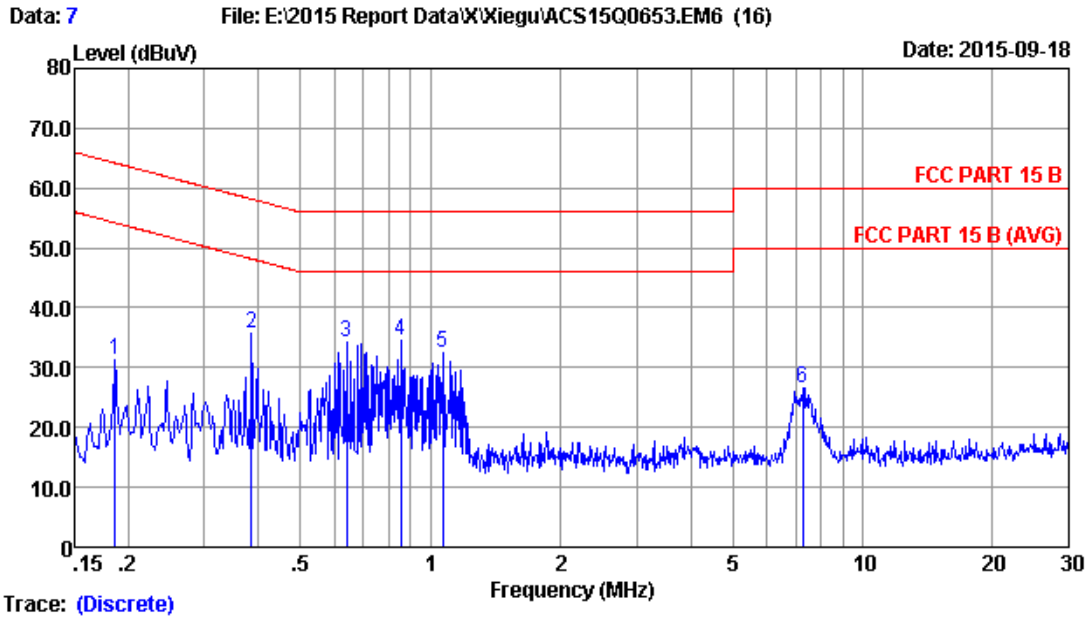
Site no :1# Conduction
Dis./Lisn :2014 ESH3-Z6 023
Limit :FCC PART 15 B
Env./Ins. :22.7*C/42%
EUT :HF TRANSCEIVER
Power Rating :DC 12V
Test Mode :CW(Receive)
M/N:X108G

Data No :2

Engineer :Nick_Huang

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.410	0.35	9.94	26.87	37.16	57.64	20.48	QP
2	0.598	0.35	9.94	24.96	35.25	56.00	20.75	QP
3	0.727	0.35	9.95	29.39	39.69	56.00	16.31	QP
4	0.866	0.34	9.95	26.45	36.74	56.00	19.26	QP
5	1.100	0.34	9.96	23.74	34.04	56.00	21.96	QP
6	7.526	0.38	10.10	16.16	26.64	60.00	33.36	QP

Remarks: 1.Emission Level=LISN Factor+Cable Loss(Include 10dB pulse limit)+Reading.
2.If the average limit is met when using a quasi-peak detector.
the EUT shall be deemed to meet both limits and measurement
with average detector is unnecessary.



Trace: (Discrete)

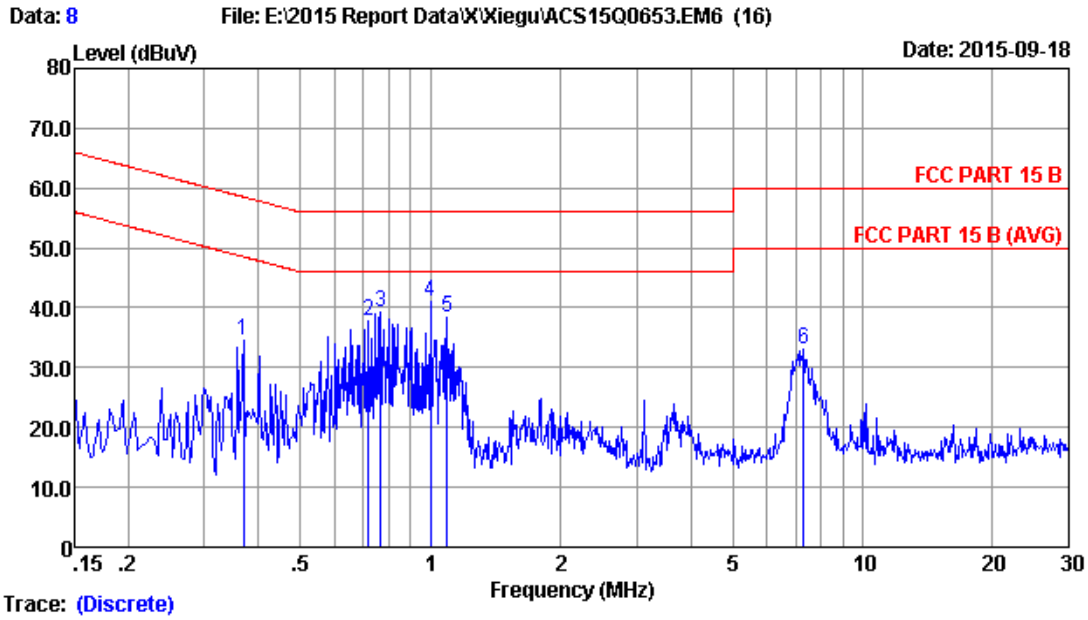
Site no :1# Conduction
Dis./Lisn :2014 ESH3-Z6 022
Limit :FCC PART 15 B
Env./Ins. :22.7*C/42%
EUT :HF TRANSCEIVER
Power Rating :DC 12V
Test Mode :AM(Receive)
M/N:X108G

Data No :7

Engineer :Nick_Huang

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.186	0.36	9.93	20.90	31.19	64.20	33.01	QP
2	0.385	0.35	9.94	25.57	35.86	58.17	22.31	QP
3	0.641	0.35	9.95	23.82	34.12	56.00	21.88	QP
4	0.853	0.34	9.95	24.31	34.60	56.00	21.40	QP
5	1.065	0.34	9.96	22.27	32.57	56.00	23.43	QP
6	7.252	0.37	10.09	16.10	26.56	60.00	33.44	QP

Remarks: 1.Emission Level=LISN Factor+Cable Loss(Include 10dB pulse limit)+Reading.
2.If the average limit is met when using a quasi-peak detector.
the EUT shall be deemed to meet both limits and measurement
with average detector is unnecessary.



Trace: (Discrete)

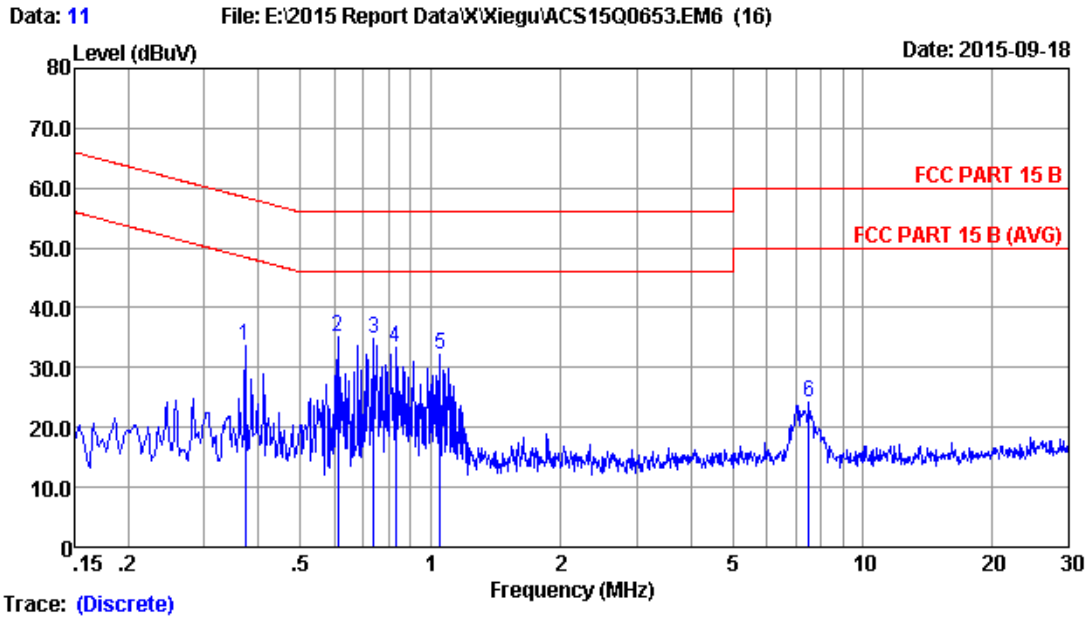
Site no :1# Conduction
Dis./Lisn :2014 ESH3-Z6 023
Limit :FCC PART 15 B
Env./Ins. :22.7*C/42%
EUT :HF TRANSCEIVER
Power Rating :DC 12V
Test Mode :AM(Receive)
M/N:X108G

Data No :8

Engineer :Nick_Huang

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.369	0.35	9.94	24.16	34.45	58.52	24.07	QP
2	0.720	0.35	9.95	27.40	37.70	56.00	18.30	QP
3	0.767	0.35	9.95	29.04	39.34	56.00	16.66	QP
4	1.000	0.34	9.96	30.63	40.93	56.00	15.07	QP
5	1.094	0.34	9.96	27.99	38.29	56.00	17.71	QP
6	7.290	0.37	10.09	22.63	33.09	60.00	26.91	QP

Remarks: 1.Emission Level=LISN Factor+Cable Loss(Include 10dB pulse limit)+Reading.
2.If the average limit is met when using a quasi-peak detector.
the EUT shall be deemed to meet both limits and measurement
with average detector is unnecessary.



Trace: (Discrete)

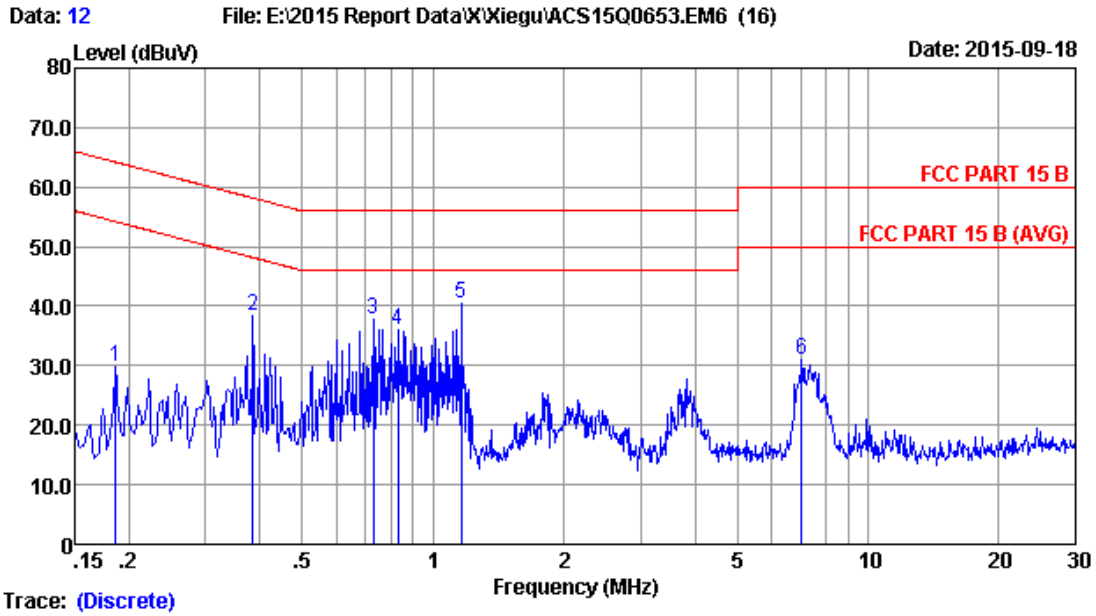
Site no :1# Conduction
Dis./Lisn :2014 ESH3-Z6 022
Limit :FCC PART 15 B
Env./Ins. :22.7*C/42%
EUT :HF TRANSCEIVER
Power Rating :DC 12V
Test Mode :LSB(Receive)
M/N:X108G

Data No :11

Engineer :Nick_Huang

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.373	0.35	9.94	23.30	33.59	58.43	24.84	QP
2	0.611	0.35	9.94	24.92	35.21	56.00	20.79	QP
3	0.739	0.35	9.95	24.41	34.71	56.00	21.29	QP
4	0.830	0.35	9.95	23.09	33.39	56.00	22.61	QP
5	1.054	0.34	9.96	21.89	32.19	56.00	23.81	QP
6	7.526	0.38	10.10	13.64	24.12	60.00	35.88	QP

Remarks: 1.Emission Level=LISN Factor+Cable Loss(Include 10dB pulse limit)+Reading.
2.If the average limit is met when using a quasi-peak detector.
the EUT shall be deemed to meet both limits and measurement
with average detector is unnecessary.



Site no :1# Conduction
Dis./Lisn :2014 ESH3-Z6 023
Limit :FCC PART 15 B
Env./Ins. :22.7*C/42%
EUT :HF TRANSCEIVER
Power Rating :DC 12V
Test Mode :LSB(Receive)
M/N:X108G

Data No :12

Engineer :Nick_Huang

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.186	0.36	9.93	19.41	29.70	64.20	34.50	QP
2	0.385	0.35	9.94	28.21	38.50	58.17	19.67	QP
3	0.727	0.35	9.95	27.52	37.82	56.00	18.18	QP
4	0.830	0.35	9.95	25.65	35.95	56.00	20.05	QP
5	1.160	0.34	9.96	30.17	40.47	56.00	15.53	QP
6	7.025	0.37	10.09	20.46	30.92	60.00	29.08	QP

Remarks: 1.Emission Level=LISN Factor+Cable Loss(Include 10dB pulse limit)+Reading.
2.If the average limit is met when using a quasi-peak detector.
the EUT shall be deemed to meet both limits and measurement
with average detector is unnecessary.

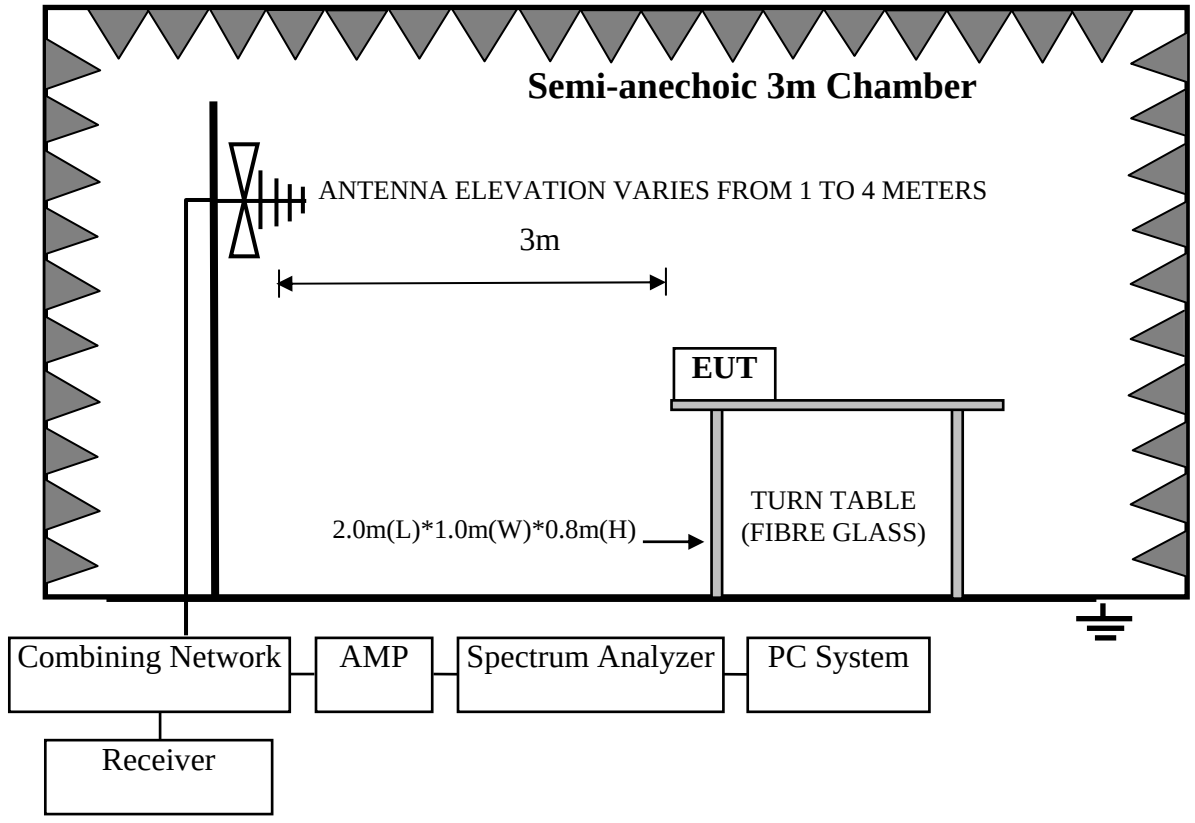
4. RADIATED EMISSION MEASUREMENT

4.1. Test Equipments

4.1.1.For frequency range 30MHz~1000MHz (In 3m Anechoic Chamber)

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	3#Chamber	AUDIX	N/A	N/A	Nov.23,14	1 Year
2.	EMI Spectrum	Agilent	E4407B	MY41440292	Apr.28,15	1 Year
3.	Test Receiver	Rohde & Schwarz	ESVS10	834468/011	Apr.28,15	1 Year
4.	Amplifier	HP	8447D	2648A04738	Apr.28,15	1 Year
5.	Bilog Antenna	TESEQ	CBL6112D	35375	Jun.30,15	1 Year
6.	Trilog-Broadband Antenna	SCHWARZBECK	VULB 9168	9168-493	May.06,15	1 Year
7.	RF Cable	MIYAZAKI	CFD400-NW(3.5M)	No.3	Apr.28,15	1 Year
8.	RF Cable	MIYAZAKI	CFD400-LW(22M)	No.7	Apr.28,15	1 Year
9.	Coaxial Switch	Anritsu	MP59B	6201397222	Apr.28,15	1 Year
10.	Test Software	AUDIX	E3	6.2009-5-21a(n)	N/A	N/A

4.2.In 3m Anechoic Chamber Test Setup Diagram for 30MHz~1000MHz



4.3. Radiated Emission Limit

All emanations from a devices or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified below:

FREQUENCY (MHz)	DISTANCE (Meters)	FIELD STRENGTHS LIMITS (dBμV/m)
30 ~ 230	10	30
230 ~ 1000	10	37

Note: (1) Emission level = Antenna Factor + Cable Loss + Reading
(2) The tighter limit shall apply at the edge between two frequency bands.
(3) Distance refers to the distance in meters between the test antenna and the centre of the EUT.

4.4. EUT 's Configuration during Compliance Measurement

The configurations of EUT are listed in Section 3.4.

4.5. Operating Condition of EUT

4.5.1. Setup the EUT and simulator as shown as Section 4.2.

4.5.2. Turn on the power of all equipments.

4.5.3. Let the EUT worked in test modes (Data Transmitting / USB Charge / Charge & Discharge / Discharge) and test it.

4.6. Test Procedure

The EUT was placed on a non-metallic table, 80 cm above the ground plane inside a semi-anechoic chamber. An antenna was located 10m from the EUT on an adjustable mast. A pre-scan was first performed in order to find prominent radiated emissions. For final emissions measurements at each frequency of interest, the EUT were rotated and the antenna height was varied between 1m and 4m in order to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.4: 2009 on Radiated Emission test.

The bandwidth setting on the test receiver (R&S TEST RECEIVER ESVS10) is 120 kHz.

The frequency range from 30MHz to 1000MHz was pre-scanned with a peak detector and all final readings of measurement from Test Receiver are Quasi-Peak values.

Finally, selected operating situations at Anechoic Chamber measurement, all the test results are listed in section 4.7.

4.7. Radiated Emission Measurement Result

PASS. (All emissions not reported below are too low against the prescribed limits.)

The EUT with the following test modes were tested and selected (No. 1~8) to read Q.P values, all the test results are listed in next pages.

EUT: HF TRANSCEIVER Model No. : X108G

Test Date: Sep.20, 2015 Temperature: 24℃ Humidity: 56%

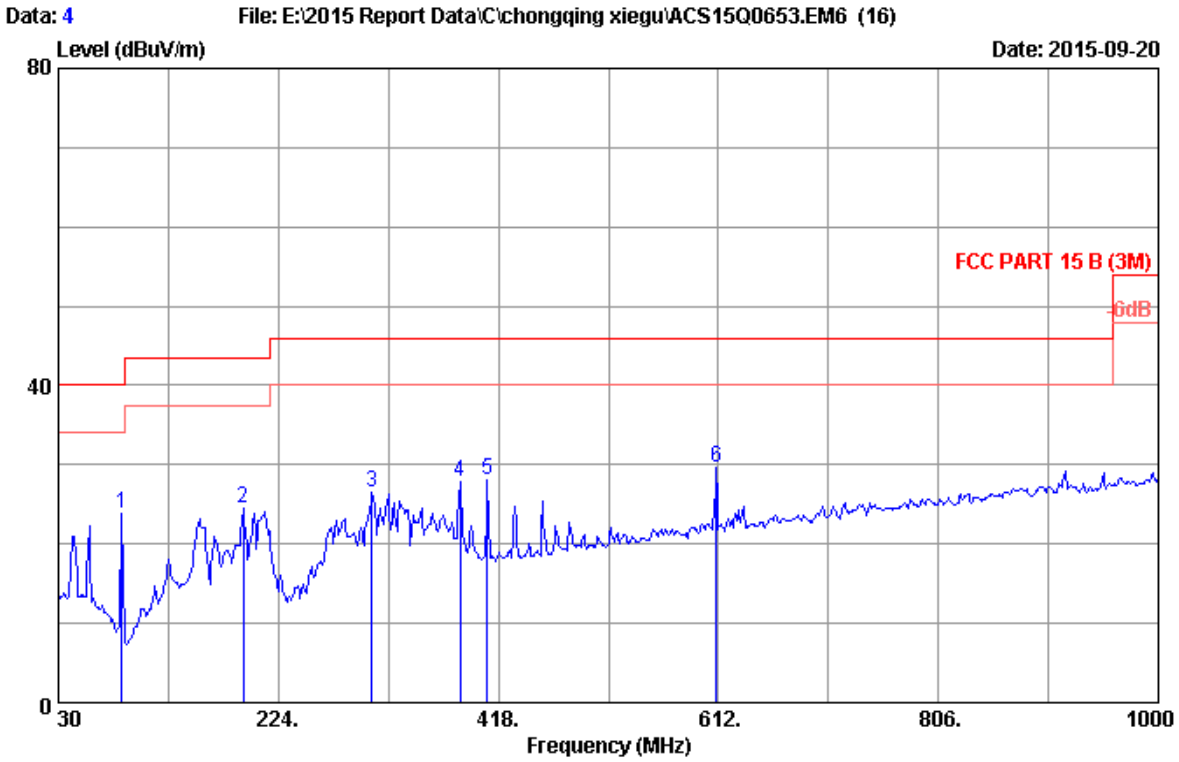
The details of test modes are as follows：

No.	Test Mode		Reference Test Data No.	
			Horizontal	Vertical
1.	Transmit	LSB	#4	#3
2.		AM	#8	#7
3.		USB	#9	#10
4.	Receiver	LSB	#1	#2
5. ※		**AM**	**#5**	**#6**
6.		USB	#12	#11
7.		CW	#13	#14
8.		CW	#16	#15

(※ Worst test mode)

For above 1GHz frequency

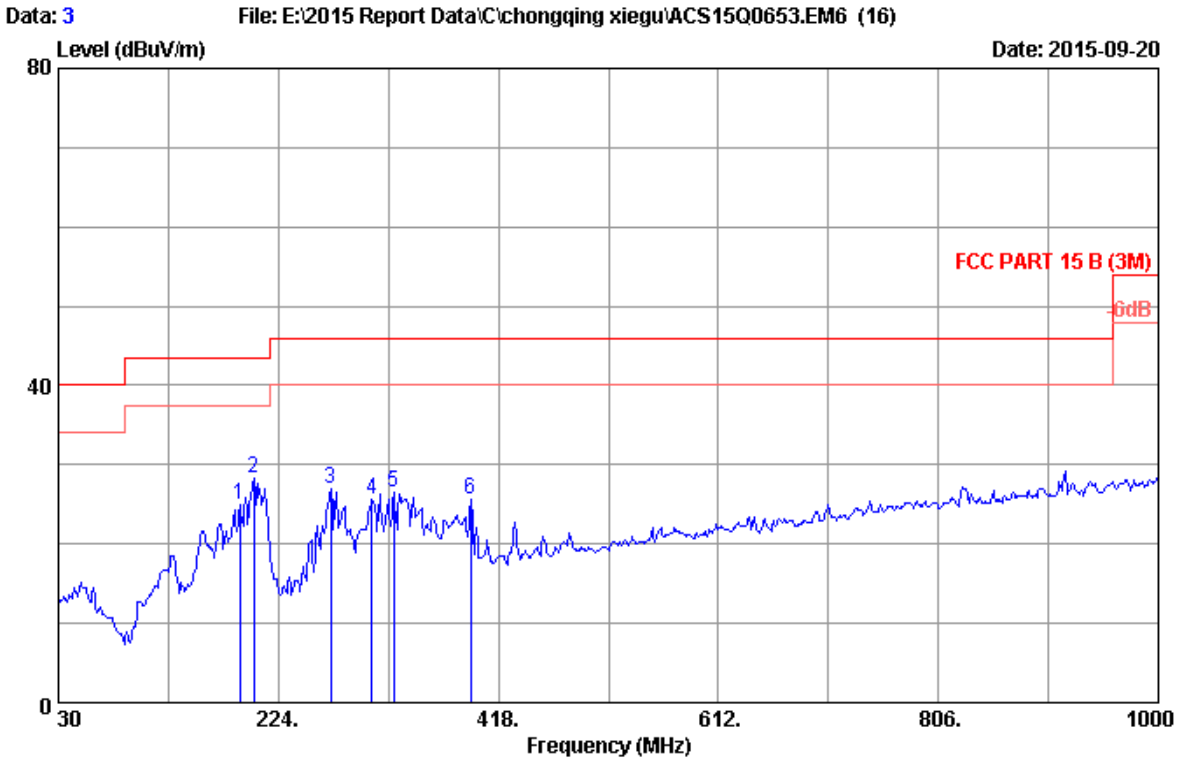
Due to the EUT's highest frequency generated and the highest frequency below 108MHz, therefore the above 1GHz frequency is no need to measurement.



Site no. : 3m Chamber
Data no. : 4
Dis. / Ant. : 3m 2015 VULB 9168-493
Ant. pol. : HORIZONTAL
Limit : FCC PART 15 B (3M)
Env. / Ins. : 24*C/56%
Engineer : Jolly_Xu
EUT : HF TRANSCEIVER
Power rating : DC 12V
Test Mode : LSB(Transmit)
X108G

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	86.260	8.28	1.02	14.59	23.89	40.00	16.11	QP
2	192.960	11.55	1.49	11.44	24.48	43.50	19.02	QP
3	306.450	14.23	1.92	10.42	26.57	46.00	19.43	QP
4	384.050	16.06	2.16	9.67	27.89	46.00	18.11	QP
5	408.300	16.60	2.23	9.33	28.16	46.00	17.84	QP
6	610.060	20.10	2.79	6.67	29.56	46.00	16.44	QP

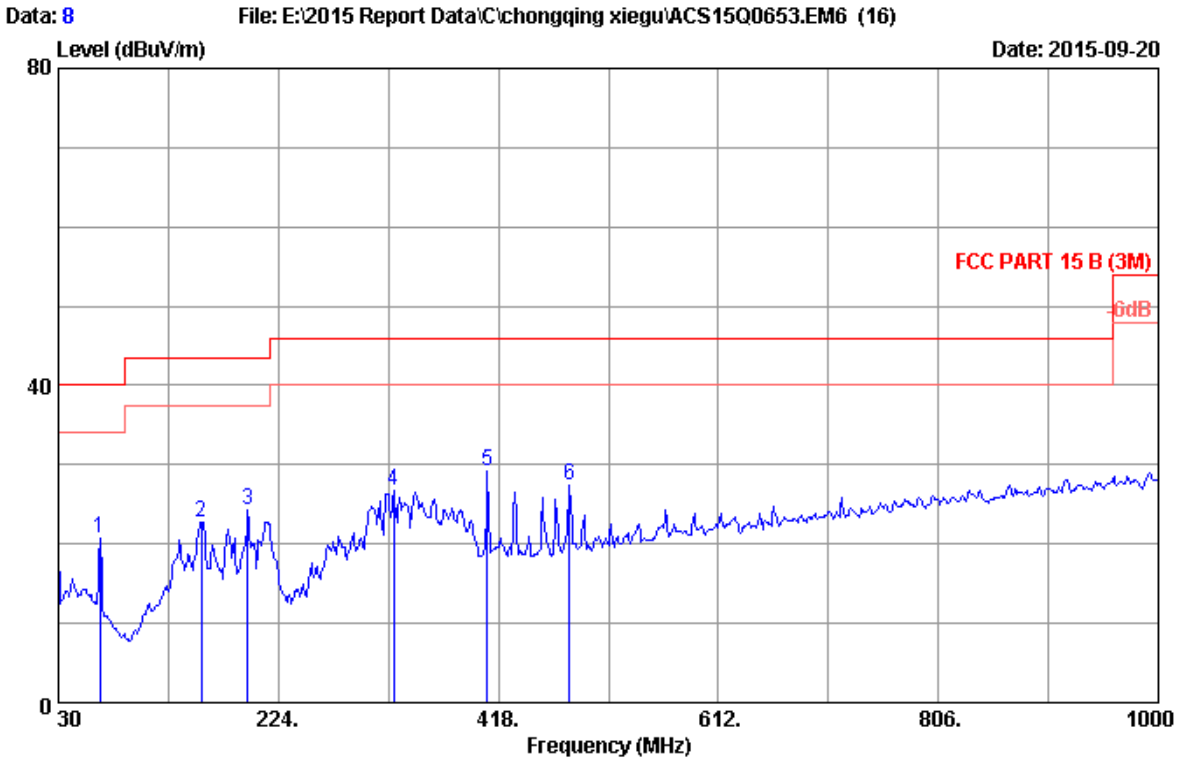
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber
Data no. : 3
Dis. / Ant. : 3m 2015 VULB 9168-493
Ant. pol. : VERTICAL
Limit : FCC PART 15 B (3M)
Env. / Ins. : 24*C/56%
Engineer : Jolly_Xu
EUT : HF TRANSCEIVER
Power rating : DC 12V
Test Mode : LSB(Transmit)
X108G

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	190.050	11.70	1.46	11.89	25.05	43.50	18.45	QP
2	202.660	11.16	1.51	15.70	28.37	43.50	15.13	QP
3	270.560	13.08	1.79	12.11	26.98	46.00	19.02	QP
4	306.450	14.23	1.92	9.57	25.72	46.00	20.28	QP
5	325.850	14.62	1.99	10.02	26.63	46.00	19.37	QP
6	393.750	16.34	2.18	7.09	25.61	46.00	20.39	QP

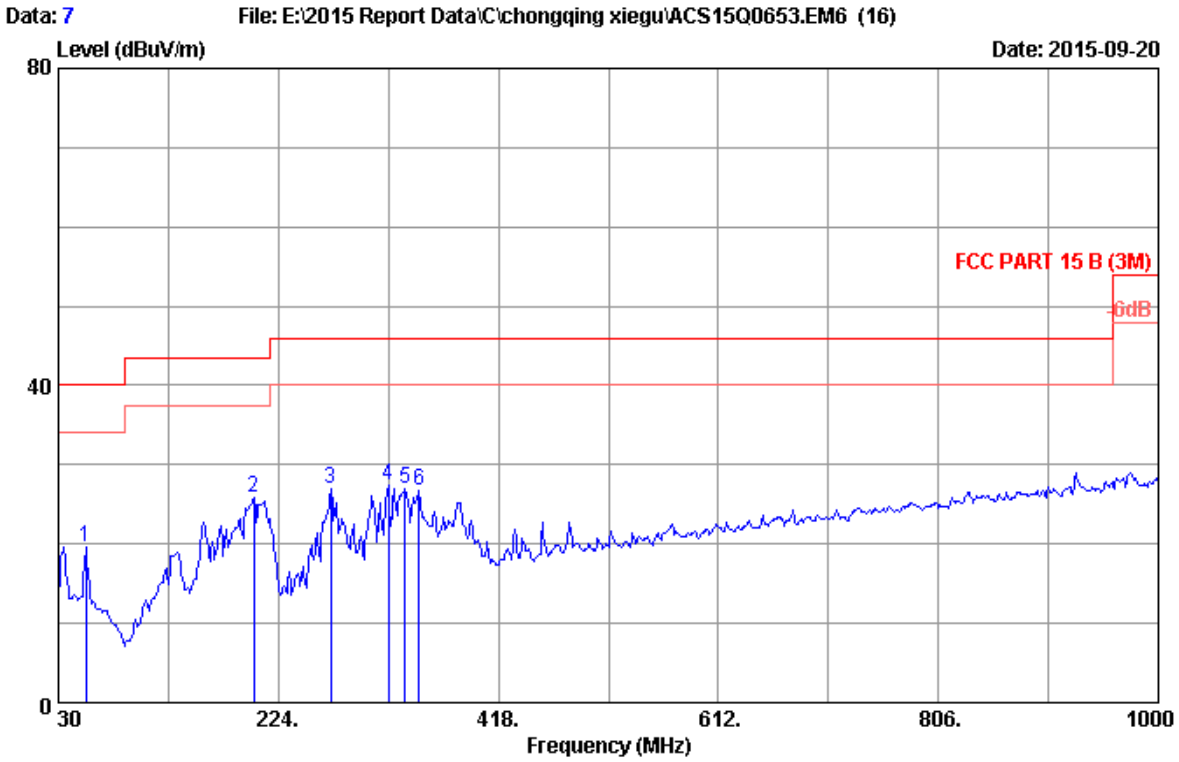
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber
Data no. : 8
Dis. / Ant. : 3m 2015 VULB 9168-493
Ant. pol. : HORIZONTAL
Limit : FCC PART 15 B (3M)
Env. / Ins. : 24*C/56%
Engineer : Jolly_Xu
EUT : HF TRANSCEIVER
Power rating : DC 12V
Test Mode : AM(Transmit)
X108G

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	66.860	12.14	0.93	7.69	20.76	40.00	19.24	QP
2	156.100	14.36	1.32	7.11	22.79	43.50	20.71	QP
3	196.840	11.35	1.49	11.45	24.29	43.50	19.21	QP
4	325.850	14.62	1.99	10.09	26.70	46.00	19.30	QP
5	408.300	16.60	2.23	10.28	29.11	46.00	16.89	QP
6	481.050	17.59	2.47	7.44	27.50	46.00	18.50	QP

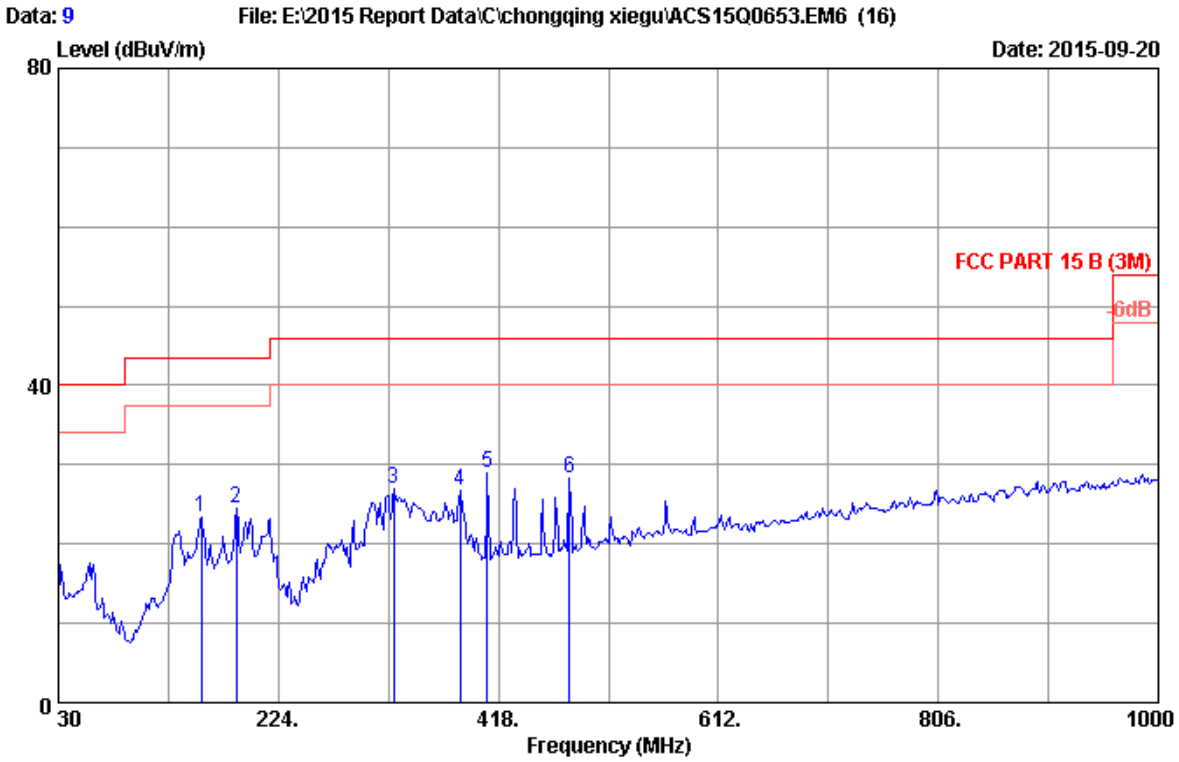
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber
Data no. : 7
Dis. / Ant. : 3m 2015 VULB 9168-493
Ant. pol. : VERTICAL
Limit : FCC PART 15 B (3M)
Env. / Ins. : 24*C/56%
Engineer : Jolly_Xu
EUT : HF TRANSCEIVER
Power rating : DC 12V
Test Mode : AM(Transmit)
X108G

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	54.250	14.00	0.85	4.75	19.60	40.00	20.40	QP
2	202.660	11.16	1.51	13.11	25.78	43.50	17.72	QP
3	270.560	13.08	1.79	12.00	26.87	46.00	19.13	QP
4	321.000	14.52	1.97	10.91	27.40	46.00	18.60	QP
5	335.550	14.81	2.01	10.21	27.03	46.00	18.97	QP
6	348.160	15.06	2.05	9.66	26.77	46.00	19.23	QP

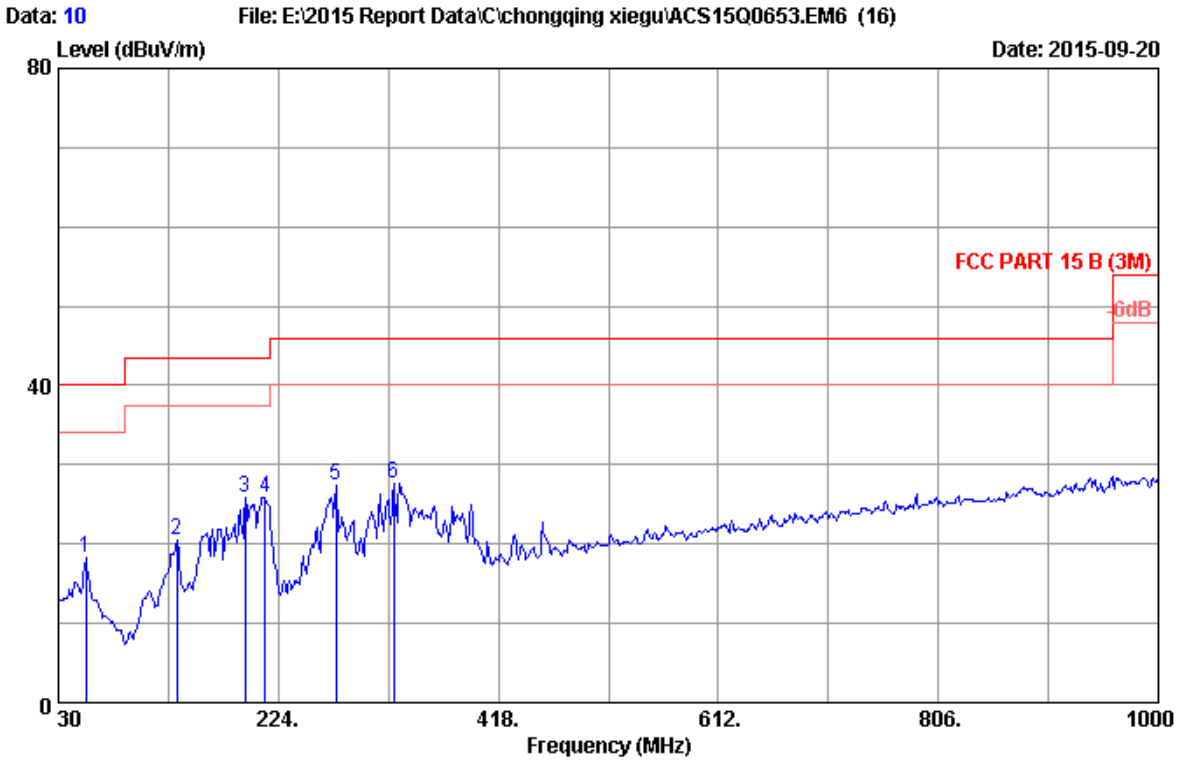
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber
Data no. : 9
Dis. / Ant. : 3m 2015 VULB 9168-493
Ant. pol. : HORIZONTAL
Limit : FCC PART 15 B (3M)
Env. / Ins. : 24*C/56%
Engineer : Jolly_Xu
EUT : HF TRANSCEIVER
Power rating : DC 12V
Test Mode : USB(Transmit)
X108G

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	156.100	14.36	1.32	7.68	23.36	43.50	20.14	QP
2	187.140	12.03	1.46	11.05	24.54	43.50	18.96	QP
3	325.850	14.62	1.99	10.32	26.93	46.00	19.07	QP
4	384.050	16.06	2.16	8.48	26.70	46.00	19.30	QP
5	408.300	16.60	2.23	10.10	28.93	46.00	17.07	QP
6	481.050	17.59	2.47	8.28	28.34	46.00	17.66	QP

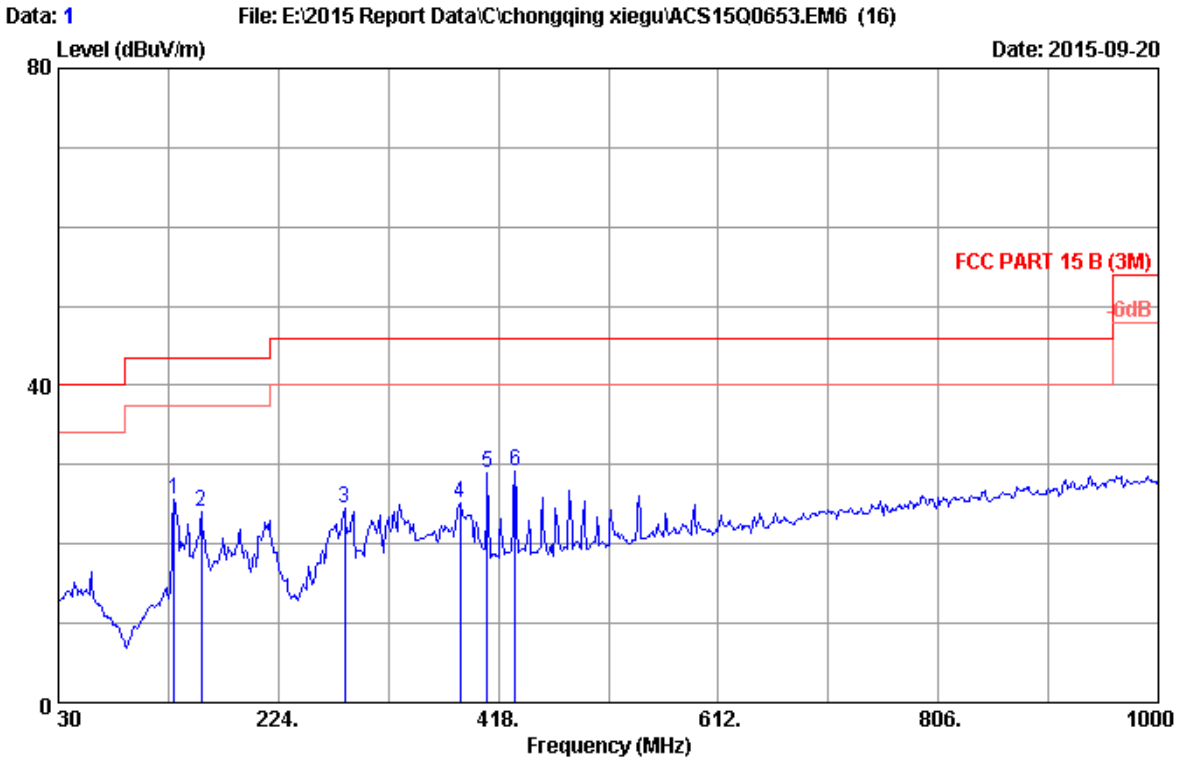
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber
Data no. : 10
Dis. / Ant. : 3m 2015 VULB 9168-493
Ant. pol. : VERTICAL
Limit : FCC PART 15 B (3M)
Env. / Ins. : 24*C/56%
Engineer : Jolly_Xu
EUT : HF TRANSCEIVER
Power rating : DC 12V
Test Mode : USB(Transmit)
X108G

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	54.250	14.00	0.85	3.52	18.37	40.00	21.63	QP
2	134.760	13.65	1.24	5.57	20.46	43.50	23.04	QP
3	194.900	11.45	1.49	12.90	25.84	43.50	17.66	QP
4	212.360	11.01	1.54	13.33	25.88	43.50	17.62	QP
5	274.440	13.29	1.79	12.40	27.48	46.00	18.52	QP
6	325.850	14.62	1.99	11.07	27.68	46.00	18.32	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

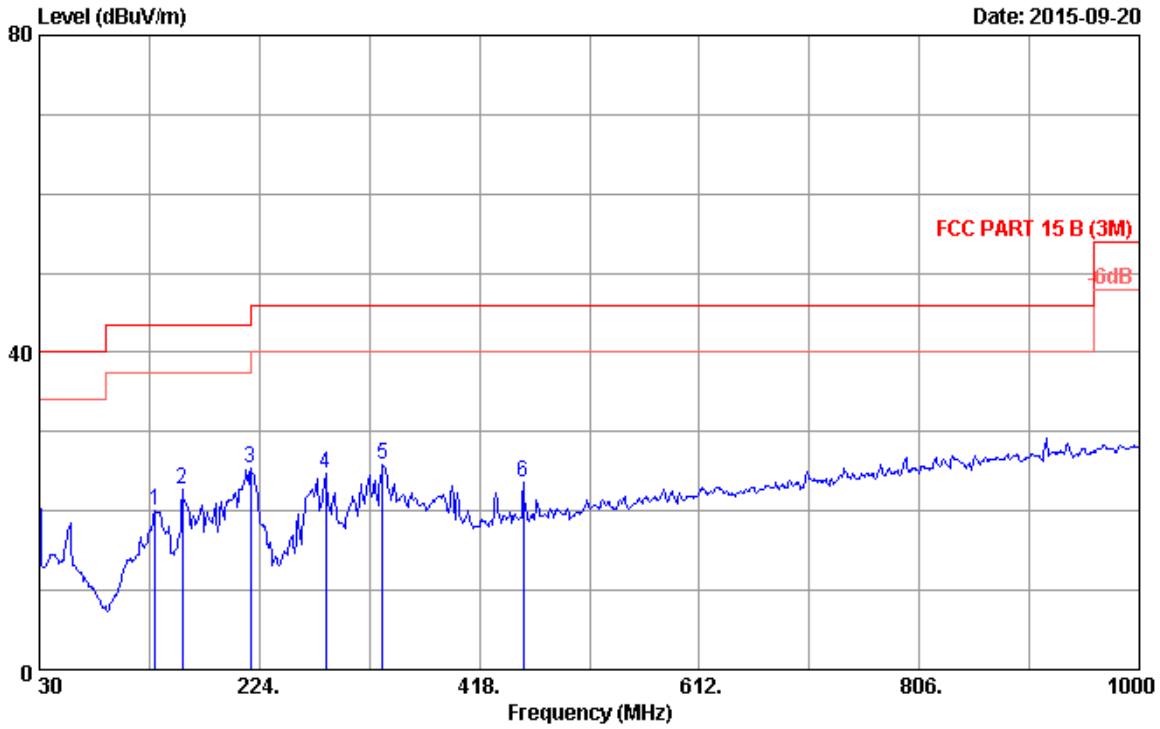


Site no. : 3m Chamber
Data no. : 1
Dis. / Ant. : 3m 2015 VULB 9168-493
Ant. pol. : HORIZONTAL
Limit : FCC PART 15 B (3M)
Env. / Ins. : 24*C/56%
Engineer : Jolly_Xu
EUT : HF TRANSCEIVER
Power rating : DC 12V
Test Mode : LSB(Receive)
X108G

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	131.850	13.44	1.24	10.95	25.63	43.50	17.87	QP
2	156.100	14.36	1.32	8.32	24.00	43.50	19.50	QP
3	282.200	13.65	1.82	8.94	24.41	46.00	21.59	QP
4	384.050	16.06	2.16	7.02	25.24	46.00	20.76	QP
5	408.300	16.60	2.23	10.09	28.92	46.00	17.08	QP
6	432.550	16.89	2.31	9.89	29.09	46.00	16.91	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

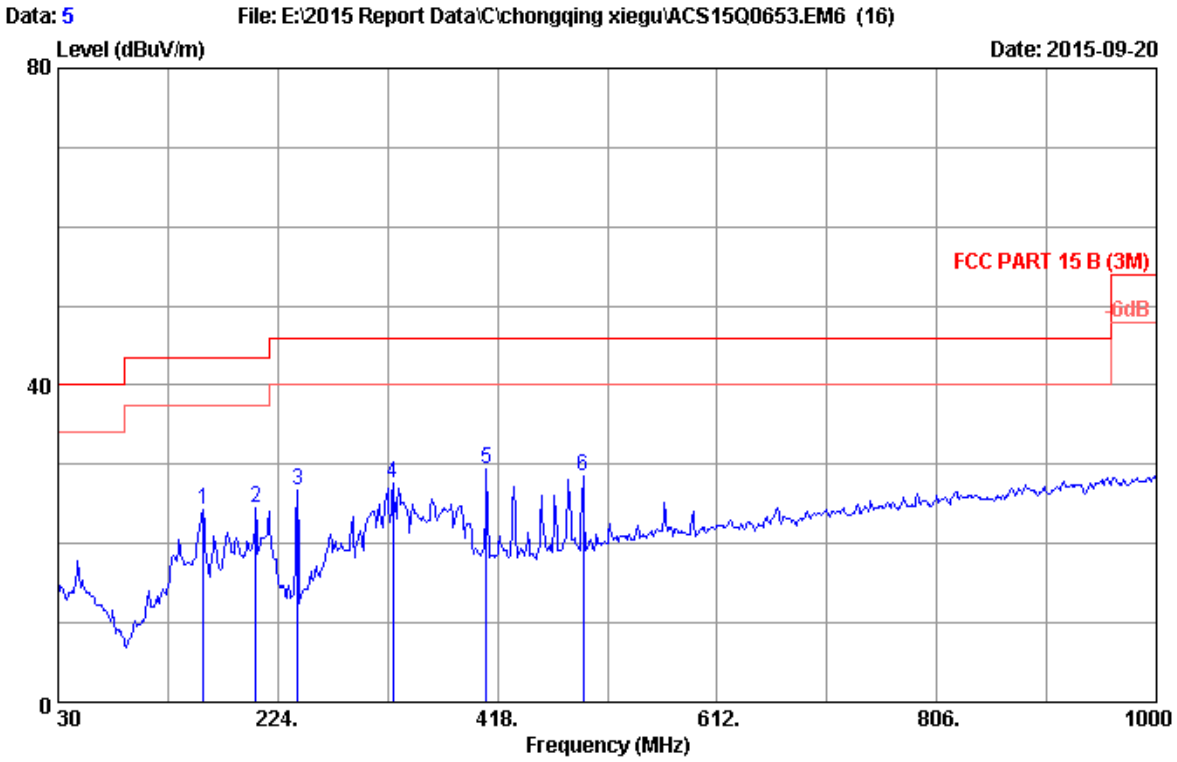
Data: 2 File: E:\2015 Report Data\C\chongqing xiegu\ACS15Q0653.EM6 (16)



Site no. : 3m Chamber Data no. : 2
Dis. / Ant. : 3m 2015 VULB 9168-493 Ant. pol. : VERTICAL
Limit : FCC PART 15 B (3M)
Env. / Ins. : 24*C/56% Engineer : Jolly_Xu
EUT : HF TRANSCEIVER
Power rating : DC 12V
Test Mode : LSB(Receive)
X108G

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	131.850	13.44	1.24	5.27	19.95	43.50	23.55	QP
2	156.100	14.36	1.32	7.04	22.72	43.50	20.78	QP
3	216.240	10.96	1.57	12.79	25.32	46.00	20.68	QP
4	282.200	13.65	1.82	9.20	24.67	46.00	21.33	QP
5	332.640	14.75	2.01	9.04	25.80	46.00	20.20	QP
6	456.800	17.21	2.38	4.08	23.67	46.00	22.33	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber
Dis. / Ant. : 3m 2015 VULB 9168-493
Limit : FCC PART 15 B (3M)
Env. / Ins. : 24*C/56%
EUT : HF TRANSCEIVER
Power rating : DC 12V
Test Mode : AM(Receive)
X108G

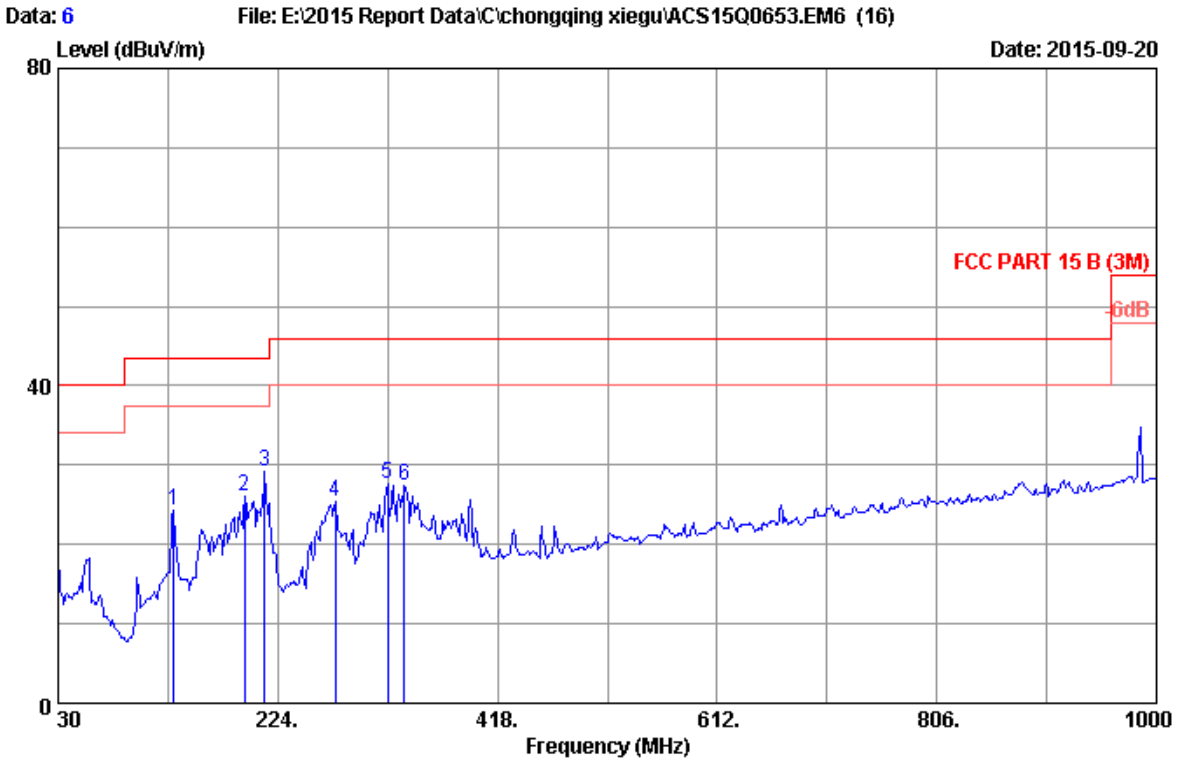
Data no. : 5
Ant. pol. : HORIZONTAL
Engineer : Jolly_Xu

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	158.040	14.38	1.35	8.66	24.39	43.50	19.11	QP
2	204.600	11.13	1.51	11.91	24.55	43.50	18.95	QP
3	241.460	11.69	1.65	13.51	26.85	46.00	19.15	QP
4	325.850	14.62	1.99	10.95	27.56	46.00	18.44	QP
5	408.300	16.60	2.23	10.65	29.48	46.00	16.52	QP
6	493.660	17.79	2.51	8.18	28.48	46.00	17.52	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

3. The worst emission was detected at 408.300 MHz with corrected signal level of 29.48 dBμV/m. (Antenna height 1.0m; Turntable degree 156°).

4. 0° was the table front facing the antenna. Degree is calculated from 0° clockwise facing the antenna.



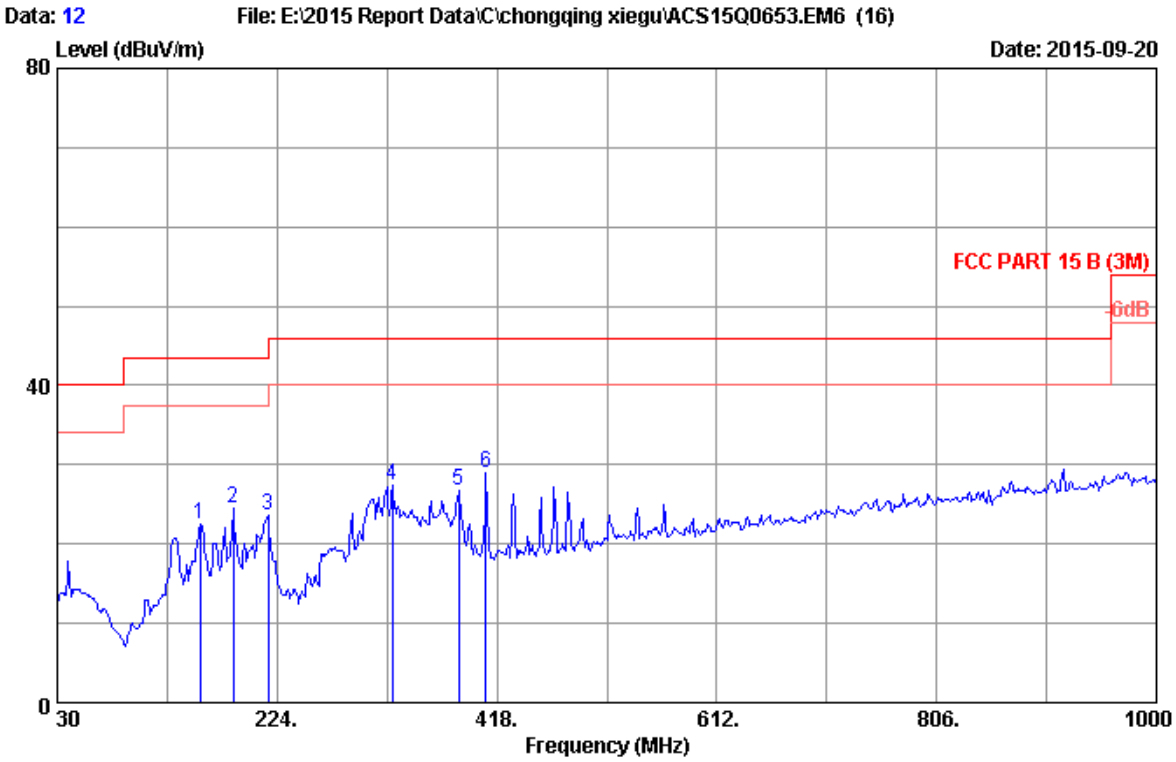
Site no. : 3m Chamber
Data no. : 6
Dis. / Ant. : 3m 2015 VULB 9168-493
Ant. pol. : VERTICAL
Limit : FCC PART 15 B (3M)
Env. / Ins. : 24*C/56%
Engineer : Jolly_Xu
EUT : HF TRANSCEIVER
Power rating : DC 12V
Test Mode : AM(Receive)
X108G

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	131.850	13.44	1.24	9.63	24.31	43.50	19.19	QP
2	194.900	11.45	1.49	13.20	26.14	43.50	17.36	QP
3	212.360	11.01	1.54	16.55	29.10	43.50	14.40	QP
4	274.440	13.29	1.79	10.25	25.33	46.00	20.67	QP
5	321.000	14.52	1.97	11.14	27.63	46.00	18.37	QP
6	335.550	14.81	2.01	10.63	27.45	46.00	18.55	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

3. The worst emission was detected at 212.360 MHz with corrected signal level of 29.10 dBμV/m. (Antenna height 1.0m; Turntable degree 315°).

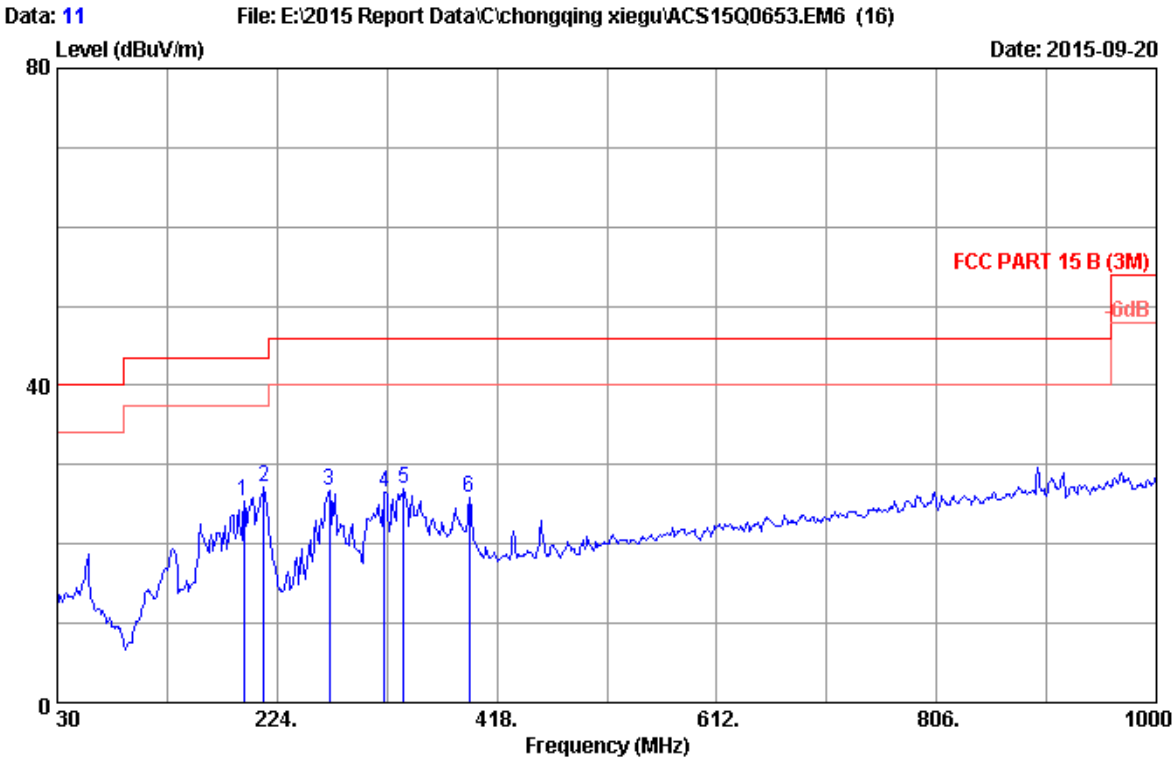
4. 0° was the table front facing the antenna. Degree is calculated from 0° clockwise facing the antenna.



Site no. : 3m Chamber
Data no. : 12
Dis. / Ant. : 3m 2015 VULB 9168-493
Ant. pol. : HORIZONTAL
Limit : FCC PART 15 B (3M)
Env. / Ins. : 24*C/56%
Engineer : Jolly_Xu
EUT : HF TRANSCEIVER
Power rating : DC 12V
Test Mode : USB(Receive)
X108G

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	156.100	14.36	1.32	6.90	22.58	43.50	20.92	QP
2	185.200	12.25	1.43	10.76	24.44	43.50	19.06	QP
3	216.240	10.96	1.57	11.13	23.66	46.00	22.34	QP
4	325.850	14.62	1.99	10.80	27.41	46.00	18.59	QP
5	384.050	16.06	2.16	8.50	26.72	46.00	19.28	QP
6	408.300	16.60	2.23	10.06	28.89	46.00	17.11	QP

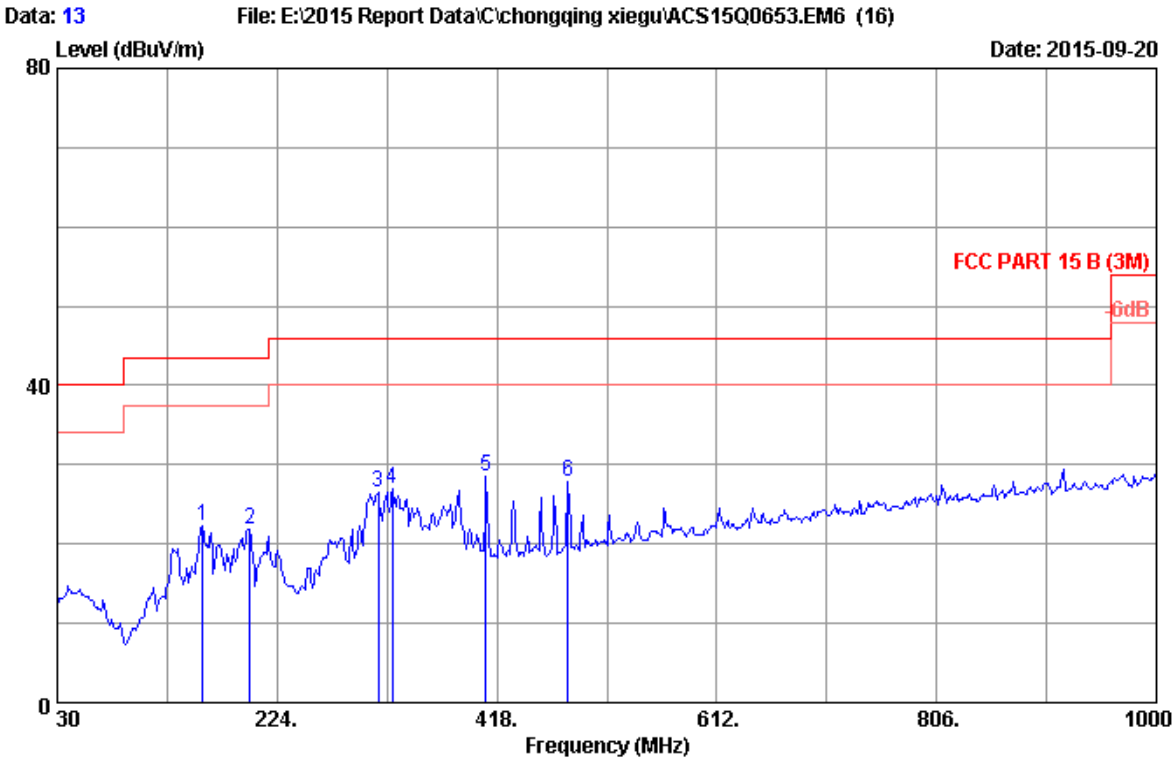
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber
Data no. : 11
Dis. / Ant. : 3m 2015 VULB 9168-493
Ant. pol. : VERTICAL
Limit : FCC PART 15 B (3M)
Env. / Ins. : 24*C/56%
Engineer : Jolly_Xu
EUT : HF TRANSCEIVER
Power rating : DC 12V
Test Mode : USB(Receive)
X108G

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	194.900	11.45	1.49	12.51	25.45	43.50	18.05	QP
2	212.360	11.01	1.54	14.69	27.24	43.50	16.26	QP
3	270.560	13.08	1.79	11.85	26.72	46.00	19.28	QP
4	319.060	14.48	1.97	10.11	26.56	46.00	19.44	QP
5	335.550	14.81	2.01	10.04	26.86	46.00	19.14	QP
6	393.750	16.34	2.18	7.23	25.75	46.00	20.25	QP

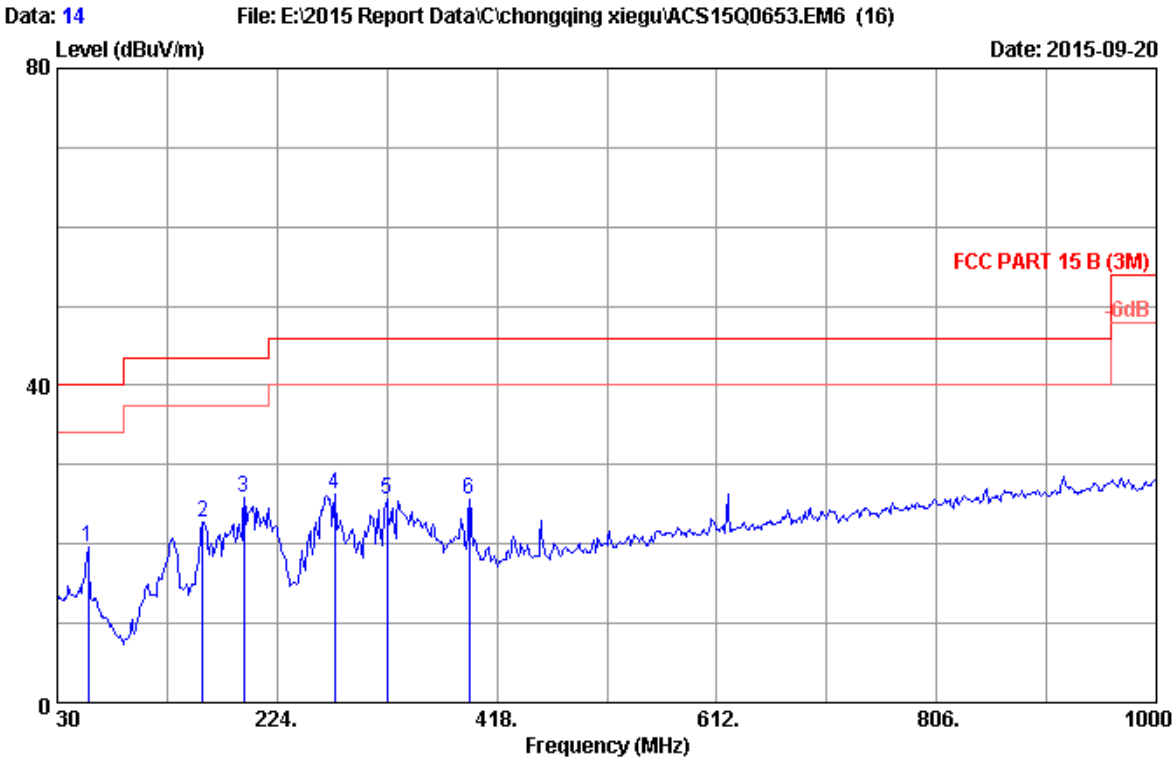
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber
Data no. : 13
Dis. / Ant. : 3m 2015 VULB 9168-493
Ant. pol. : HORIZONTAL
Limit : FCC PART 15 B (3M)
Env. / Ins. : 24*C/56%
Engineer : Jolly_Xu
EUT : HF TRANSCEIVER
Power rating : DC 12V
Test Mode : CW(Receive)
X108G

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	158.040	14.38	1.35	6.48	22.21	43.50	21.29	QP
2	199.750	11.20	1.51	9.23	21.94	43.50	21.56	QP
3	313.240	14.37	1.94	10.27	26.58	46.00	19.42	QP
4	325.850	14.62	1.99	10.43	27.04	46.00	18.96	QP
5	408.300	16.60	2.23	9.77	28.60	46.00	17.40	QP
6	481.050	17.59	2.47	7.89	27.95	46.00	18.05	QP

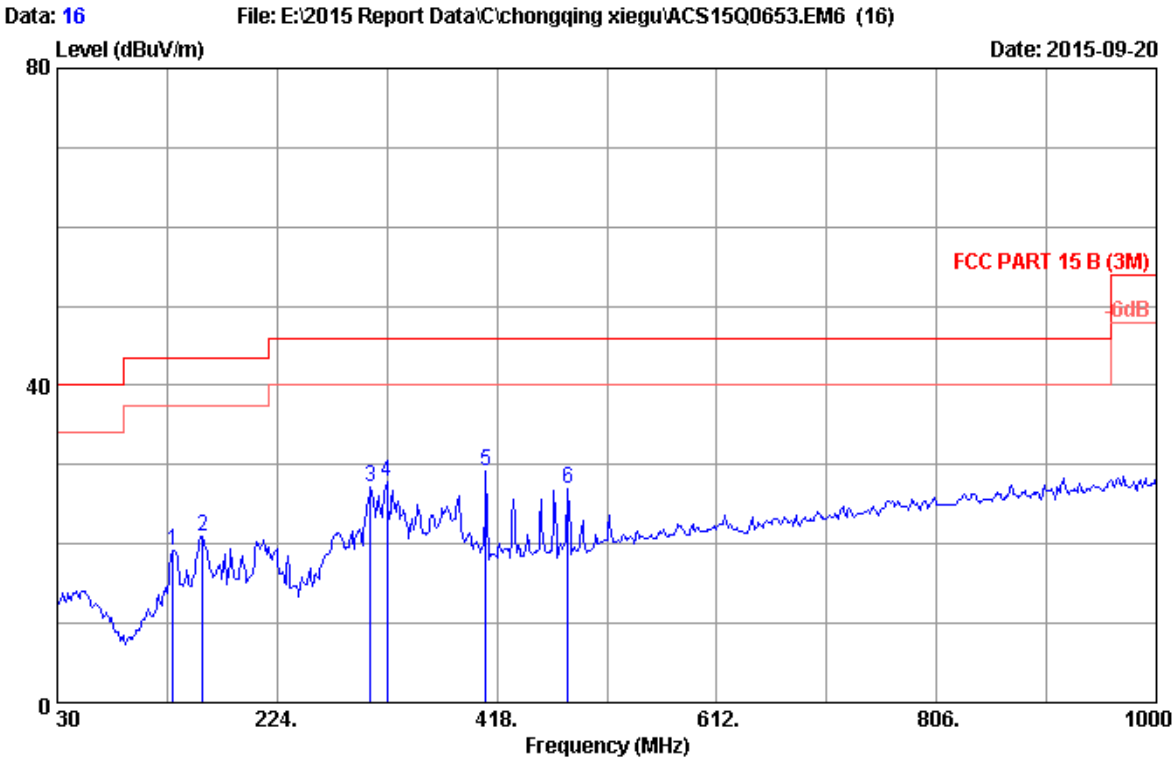
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber
Data no. : 14
Dis. / Ant. : 3m 2015 VULB 9168-493
Ant. pol. : VERTICAL
Limit : FCC PART 15 B (3M)
Env. / Ins. : 24*C/56%
Engineer : Jolly_Xu
EUT : HF TRANSCEIVER
Power rating : DC 12V
Test Mode : CW(Receive)
X108G

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	57.160	13.70	0.85	4.97	19.52	40.00	20.48	QP
2	158.040	14.38	1.35	7.07	22.80	43.50	20.70	QP
3	194.900	11.45	1.49	12.93	25.87	43.50	17.63	QP
4	274.440	13.29	1.79	11.31	26.39	46.00	19.61	QP
5	321.000	14.52	1.97	9.17	25.66	46.00	20.34	QP
6	393.750	16.34	2.18	7.05	25.57	46.00	20.43	QP

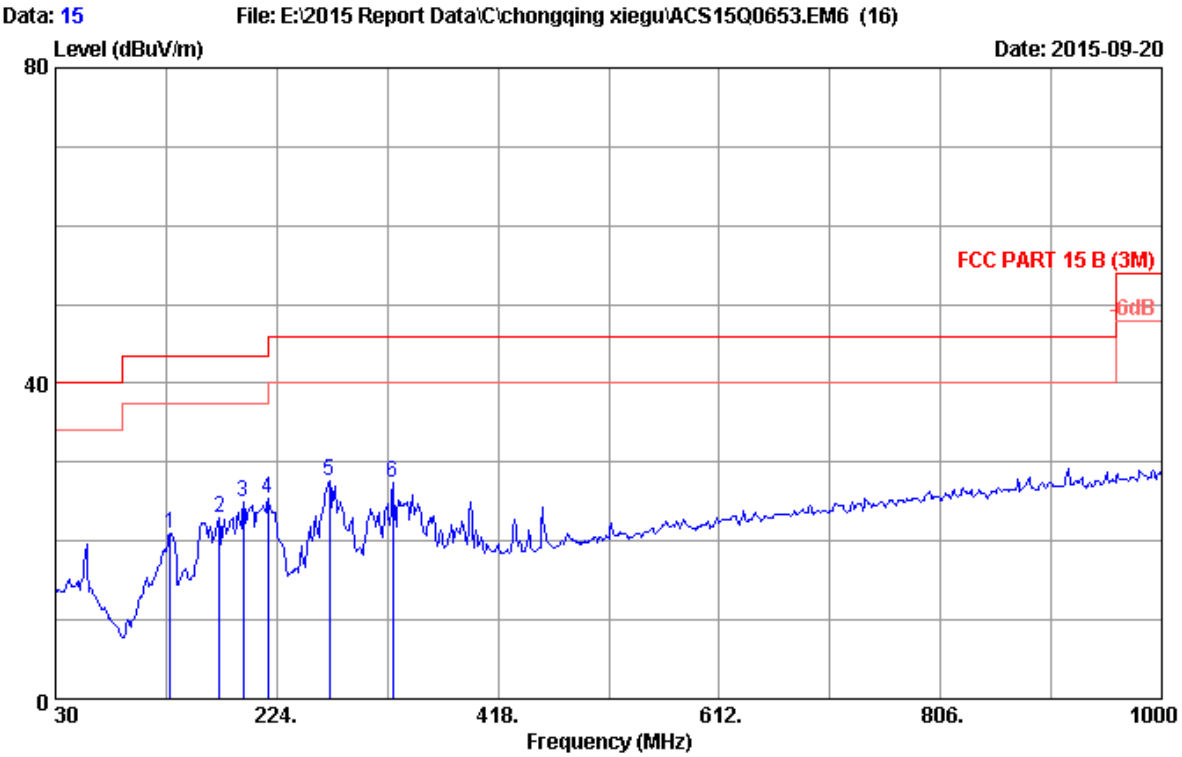
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber
Data no. : 16
Dis. / Ant. : 3m 2015 VULB 9168-493
Ant. pol. : HORIZONTAL
Limit : FCC PART 15 B (3M)
Env. / Ins. : 24*C/56%
Engineer : Jolly_Xu
EUT : HF TRANSCEIVER
Power rating : DC 12V
Test Mode : CW(Receive)
X108G

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	131.850	13.44	1.24	4.45	19.13	43.50	24.37	QP
2	158.040	14.38	1.35	5.27	21.00	43.50	22.50	QP
3	306.450	14.23	1.92	10.98	27.13	46.00	18.87	QP
4	321.000	14.52	1.97	11.29	27.78	46.00	18.22	QP
5	408.300	16.60	2.23	10.34	29.17	46.00	16.83	QP
6	481.050	17.59	2.47	6.88	26.94	46.00	19.06	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber
Data no. : 15
Dis. / Ant. : 3m 2015 VULB 9168-493
Ant. pol. : VERTICAL
Limit : FCC PART 15 B (3M)
Env. / Ins. : 24*C/56%
Engineer : Jolly_Xu
EUT : HF TRANSCEIVER
Power rating : DC 12V
Test Mode : CW(Receive)
X108G

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	130.880	13.37	1.24	6.31	20.92	43.50	22.58	QP
2	173.560	13.63	1.40	7.82	22.85	43.50	20.65	QP
3	194.900	11.45	1.49	11.95	24.89	43.50	18.61	QP
4	216.240	10.96	1.57	12.98	25.51	46.00	20.49	QP
5	270.560	13.08	1.79	12.81	27.68	46.00	18.32	QP
6	325.850	14.62	1.99	10.72	27.33	46.00	18.67	QP

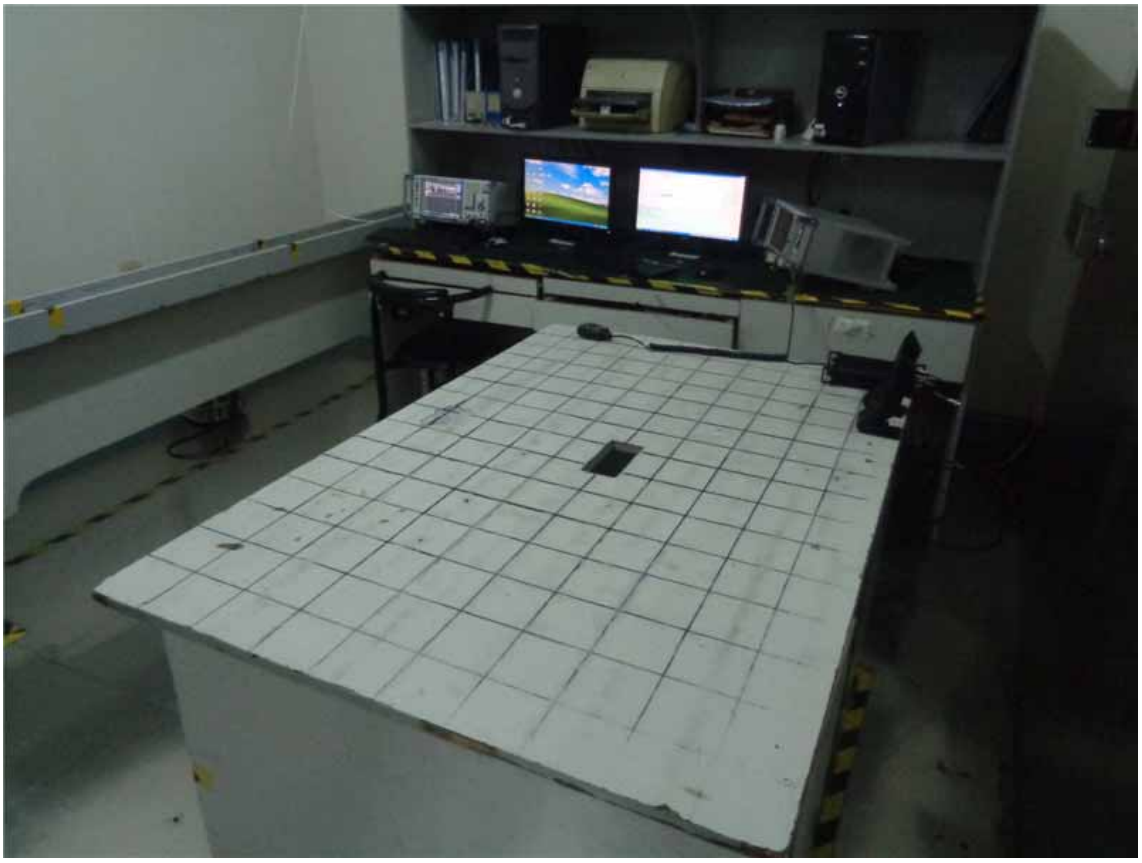
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

5. DEVIATION TO TEST SPECIFICATIONS

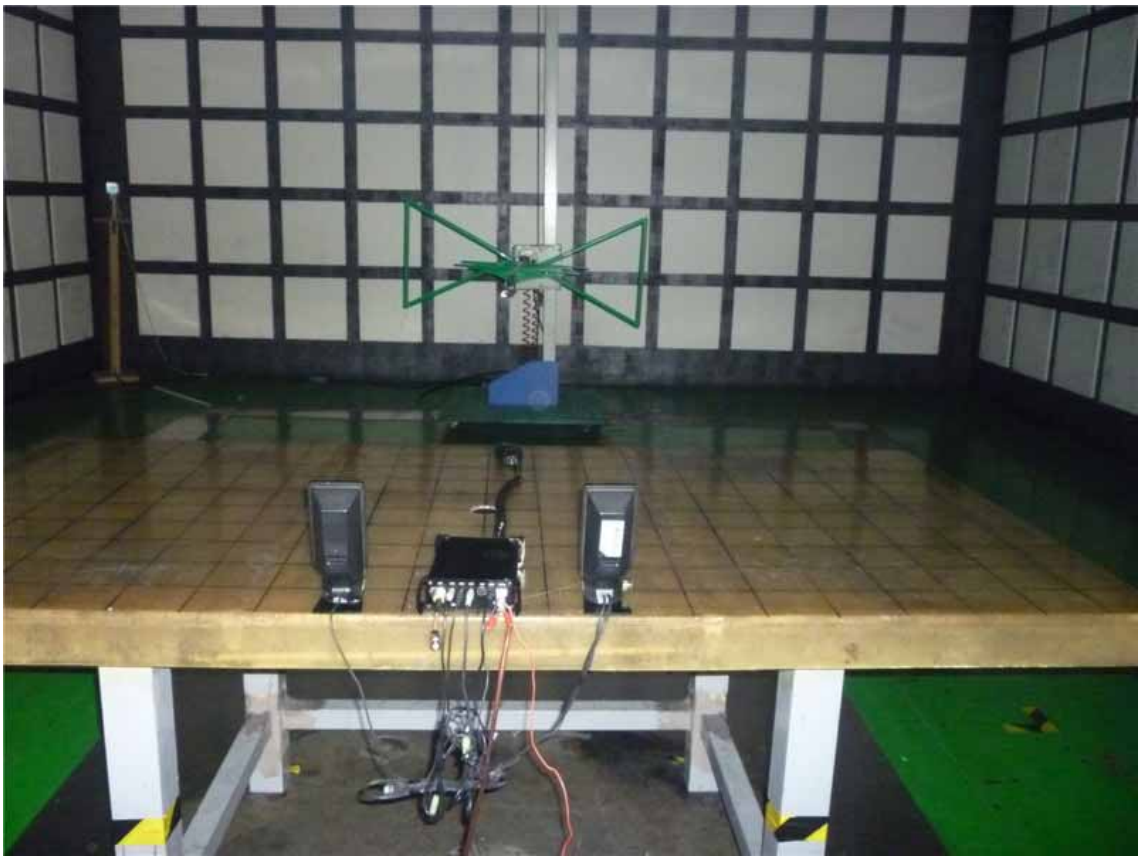
[NONE]

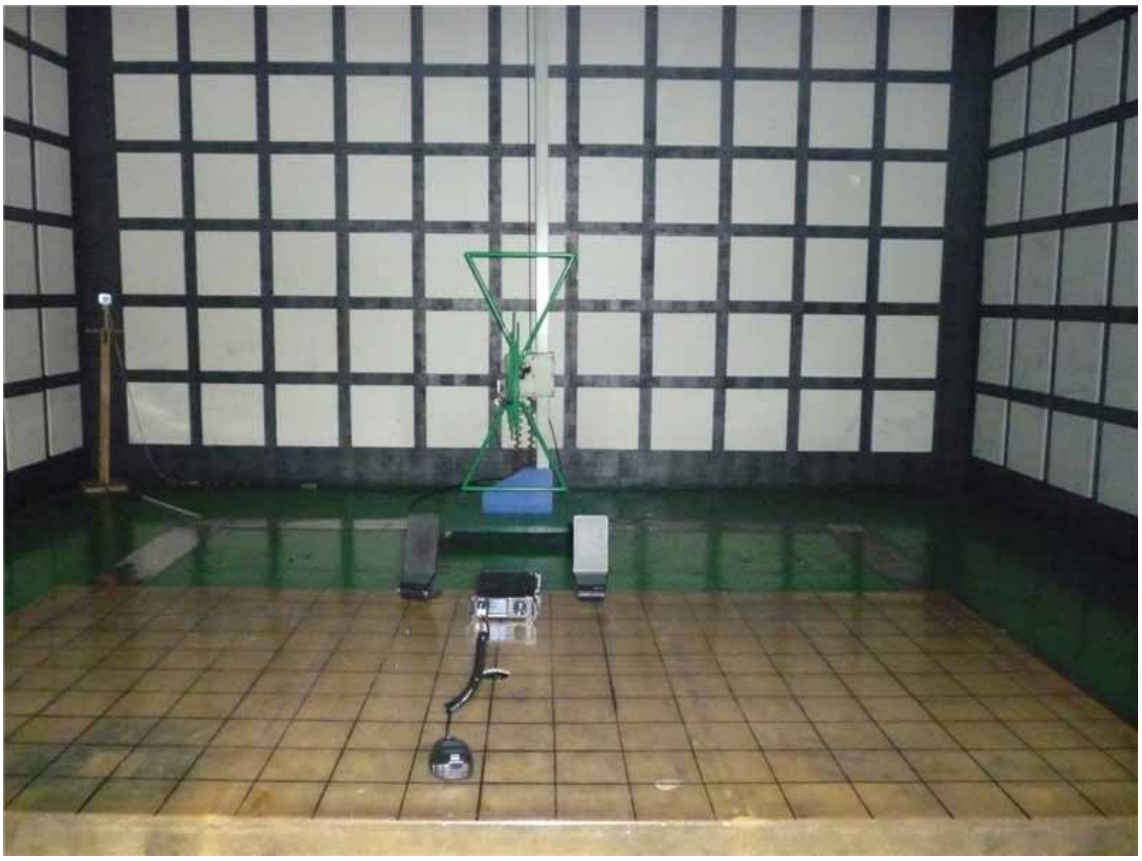
6. PHOTOGRAPH

6.1. Photos of Power Line Conducted Emission Test



6.2.Photos of Radiated Emission Test (In 3m Anechoic Chamber)





PHOTOS OF THE EUT

Figure 1
General Appearance of the EUT

Figure 2
General Appearance of the EUT

Figure 3
General Appearance of the EUT

Figure 4
General Appearance of the EUT

Figure 5
General Appearance of the EUT

Figure 6
General Appearance of the EUT

Figure 7
General Appearance of the EUT

Figure 8
General Appearance of the EUT

Figure 9
Inside of the EUT

Figure 10
Inside of the EUT

Figure 11
Inside of the EUT

Figure 12
Inside of the EUT

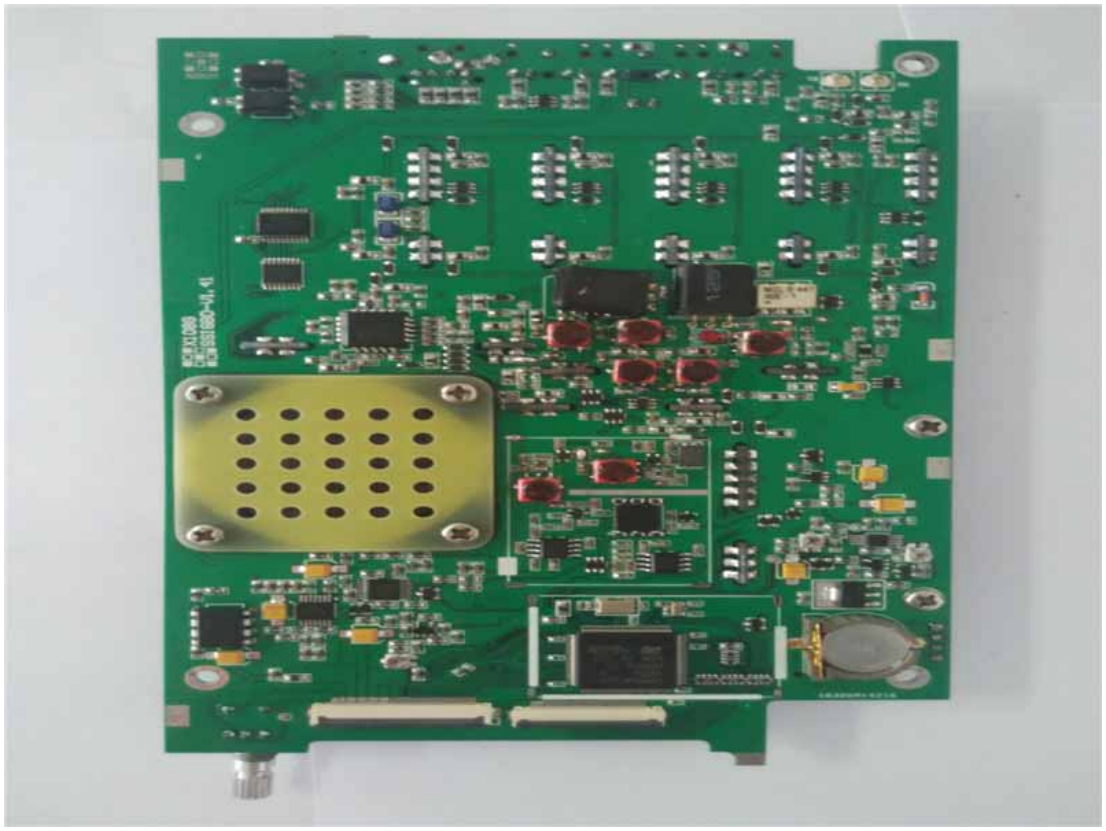


Figure 13
Inside of the EUT

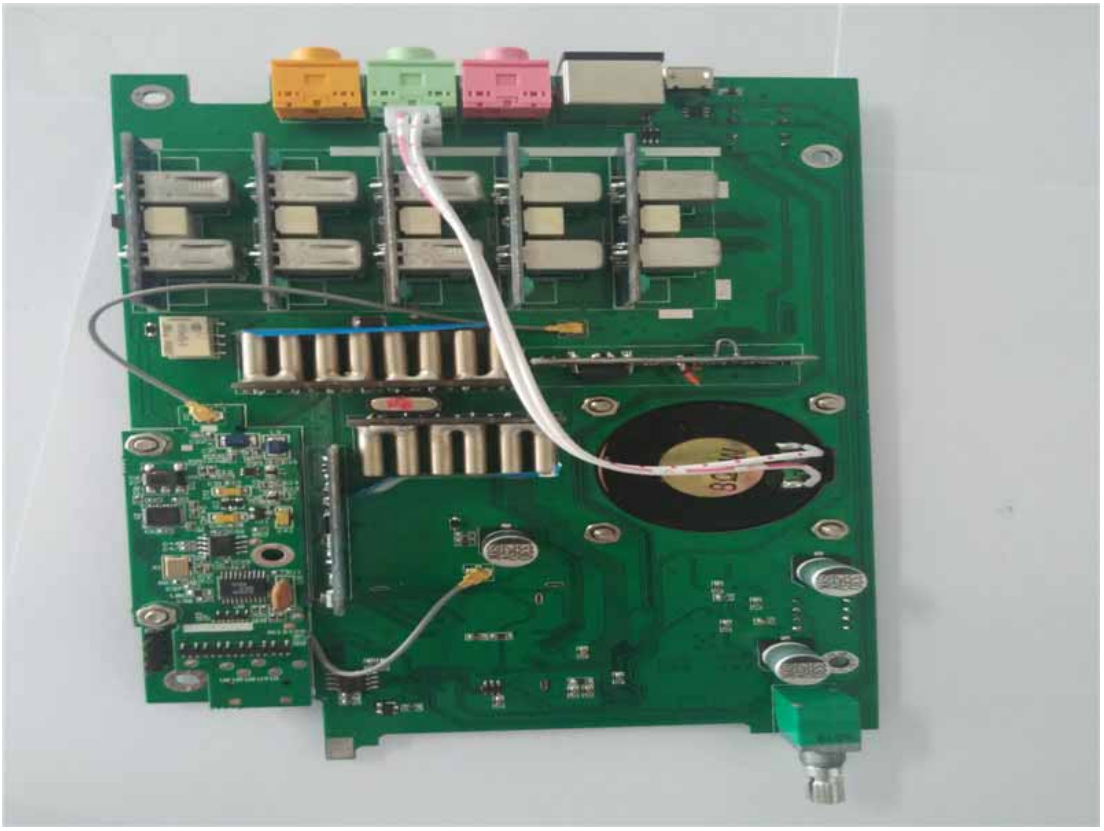


Figure 14
Inside of the EUT

Figure 15
Inside of the EUT