

FCC TEST REPORT

For

Elexa Consumer Products Inc.

Guardian Valve Controller

Model No.: GVC1

Prepared For : Elexa Consumer Products Inc.
Address : 2275 Half Day Road, Suite 333, Bannockburn, Illinois, United States

Prepared By : Shenzhen Anbotek Compliance Laboratory Limited
Address : 1/F., Building 1, SEC Industrial Park, No.0409 Qianhai Road, Nanshan District, Shenzhen, Guangdong, China
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Report Number : R0217080021W3
Date of Test : Aug. 09~Oct. 16, 2017
Date of Report : Oct. 16, 2017

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TEST REPORT

Applicant : Elexa Consumer Products Inc.
Manufacturer : Zmartgears Limited.
Product Name : Guardian Valve Controller
Model No. : GVC1
Trade Mark : N.A.
Rating(s) : Input DC 12V 2A (Adapter Input 100-240V, 50/60Hz, 0.8A Max)

Test Standard(s) : FCC Part15 Subpart C, Paragraph 15.249

Test Method(s) : ANSI C63.10: 2013

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with the FCC Part 15 Subpart C requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

Date of Test : Aug. 09~Oct. 16, 2017

Prepared by :



Winkey Wang

(Tested Engineer / Winkey Wang)

Reviewer :

Tangcy. T.

(Project Manager / Tangcy. T)

Approved & Authorized Signer :

Tom Chen

(Manager / Tom Chen)

1. General Information

1.1. Client Information

Applicant	:	Elexa Consumer Products Inc.
Address	:	2275 Half Day Road, Suite 333, Bannockburn, Illinois, United States
Manufacturer	:	Zmartgears Limited.
Address	:	4/F, Building A3, Digital Tech Park Gaoxin South 7th Rd, Science Park, Nanshan District, SZ 518057, GD, CN

1.2. Description of Device (EUT)

Product Name	:	Guardian Valve Controller	
Model No.	:	GVC1	
Trade Mark	:	N.A.	
Test Power Supply	:	AC 120V, 60Hz via adapter/AC 240V, 60Hz via adapter	
Product Description	:	Operation Frequency:	915MHz
		Number of Channel:	1 Channels
		Modulation Type:	FSK
		Antenna Type:	PCB antenna
		Antenna Gain(Peak):	2.0 dBi
Remark: 1)For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.			

1.3. Auxiliary Equipment Used During Test

Adapter	:	Manufacturer: AQUIL STAR PRECISION INDUSTRIAL(SHENZHEN)CO., LTD M/N: ASSA67A-120200 Input: 100-240V~50/60Hz 0.8A Output: 12.0V, 2.0A
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1.4. Description of Test Modes

To investigate the maximum EMI emission characteristics generated from EUT, the test system was pre-scanning tested based on the consideration of following EUT operation mode or test configuration mode which possibly have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	CH01

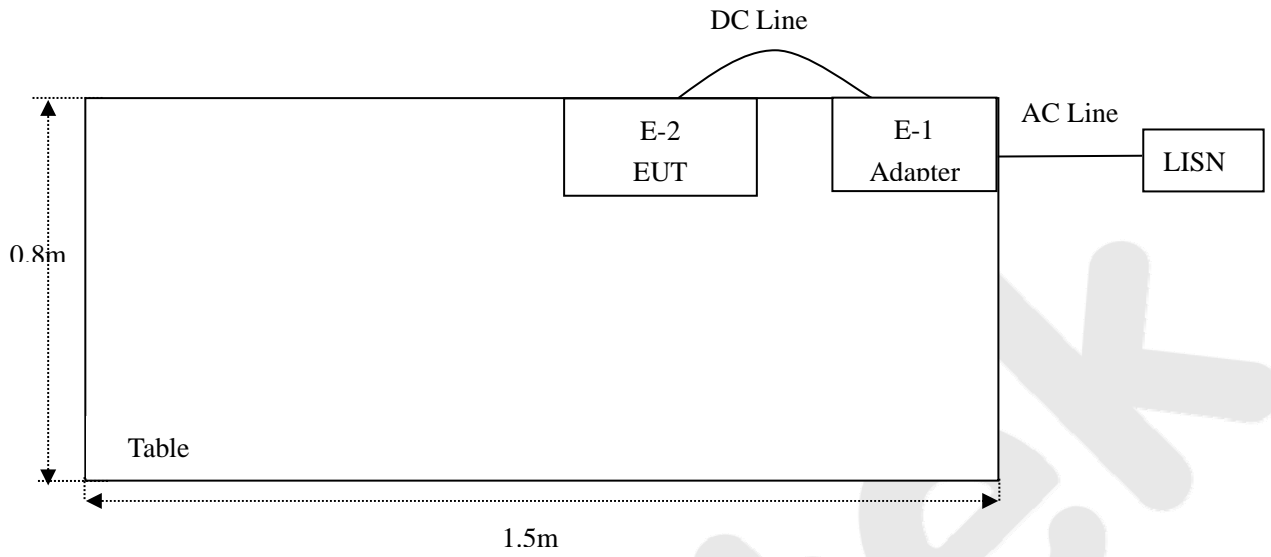
For Radiated Emission	
Final Test Mode	Description
Mode 1	CH01

1.5. List of Channels

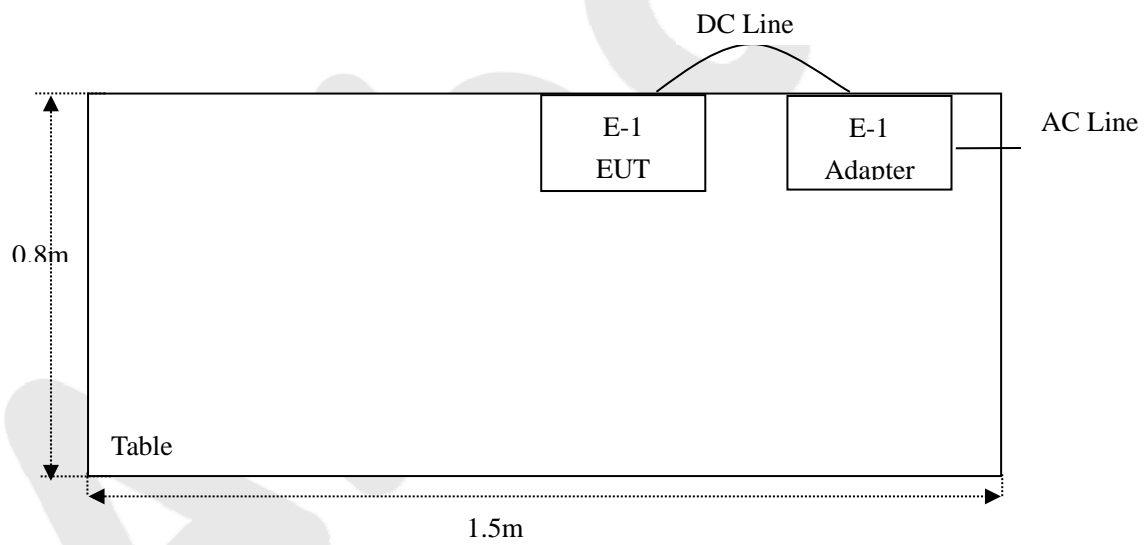
Channel	Frequency (MHz)
01	915

1.6. Description of Test Setup

CE



RE



1.7. Test Equipment List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	May 27, 2017	1 Year
2.	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	May 27, 2017	1 Year
3.	RF Switching Unit	Compliance Direction	RSU-M2	38303	May 27, 2017	1 Year
4.	Spectrum Analysis	Agilent	E4407B	US39390582	May 27, 2017	1 Year
5.	Preamplifier	SKET Electronic	BK1G18G30 D	KD17503	May 27, 2017	1 Year
6.	EMI Test Receiver	Rohde & Schwarz	ESPI	101604	May 27, 2017	1 Year
7.	Double Ridged Horn Antenna	Instruments corporation	GTH-0118	351600	May 31, 2017	1 Year
8.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	VULB 9163-289	May 31, 2017	1 Year
9.	Loop Antenna	Schwarzbeck	HFH2-Z2	100047	Apr. 03, 2017	1 Year
10.	Pre-amplifier	SONOMA	310N	186860	May 27, 2017	1 Year
11.	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	N/A	N/A
12.	Power Sensor	DAER	RPR3006W	15I00041SN045	May 27, 2017	1 Year
13.	Power Sensor	DAER	RPR3006W	15I00041SN046	May 27, 2017	1 Year
14.	MXA Spectrum Analysis	Agilent	N9020A	MY51170037	May 27, 2017	1 Year
15.	MXG RF Vector Signal Generator	Agilent	N5182A	MY48180656	May 27, 2017	1 Year
16.	Signal Generator	Agilent	E4421B	MY41000743	May 27, 2017	1 Year
17.	DC Power supply	IVYTECH	IV6003	1601D6030007	May 26, 2017	1 Year
18.	TEMP&HUMI PROGRAMMABLE CHAMBER	Sertep	ZJ-HWHS80 B	ZJ-17042804	Mar. 03, 2017	1 Year

1.8. Measurement Uncertainty

Radiation Uncertainty	:	Ur = 4.1 dB (Horizontal)
		Ur = 4.3 dB (Vertical)
Conduction Uncertainty	:	Uc = 3.4dB

1.9. Description of Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

FCC-Registration No.: 184111

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No. 184111, July 31, 2017.

ISED-Registration No.: 8058A-1

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (ISED) Innovation, Science and Economic Development Canada. The acceptance letter from the ISED is maintained in our files. Registration 8058A-1, June 13, 2016.

Test Location

All Emissions tests were performed at

Shenzhen Anbotek Compliance Laboratory Limited.

at 1/F., Building 1, SEC Industrial Park, No.0409 Qianhai Road, Nanshan District, Shenzhen, Guangdong, China

2. Summary of Test Results

Standard Section	Test Item	Result
15.203	Antenna Requirement	PASS
15.207	Conducted Emission	PASS
15.249	Spurious Emission	PASS
15.215(c)	20dB Bandwidth	PASS
15.249(c)	Band Edge	PASS

Remark: "N/A" is an abbreviation for Not Applicable.

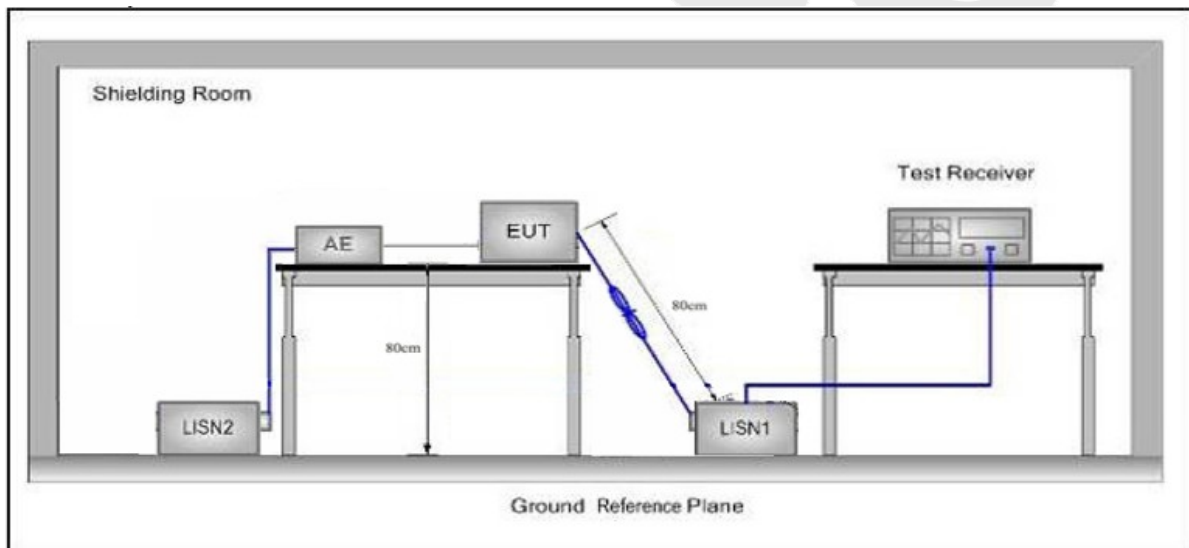
3. Conducted Emission Test

3.1. Test Standard and Limit

Test Standard	FCC Part15 Section 15.207		
Test Limit	Frequency	Maximum RF Line Voltage (dBuV)	
		Quasi-peak Level	Average Level
	150kHz~500kHz	66 ~ 56 *	56 ~ 46 *
	500kHz~5MHz	56	46
5MHz~30MHz	60	50	

Remark: (1) *Decreasing linearly with logarithm of the frequency.
(2) The lower limit shall apply at the transition frequency.

3.2. Test Setup



3.3. Test Procedure

The EUT system is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to FCC ANSI C63.10-2013 on Conducted Emission Measurement.

The bandwidth of test receiver (ESCI) set at 9kHz.

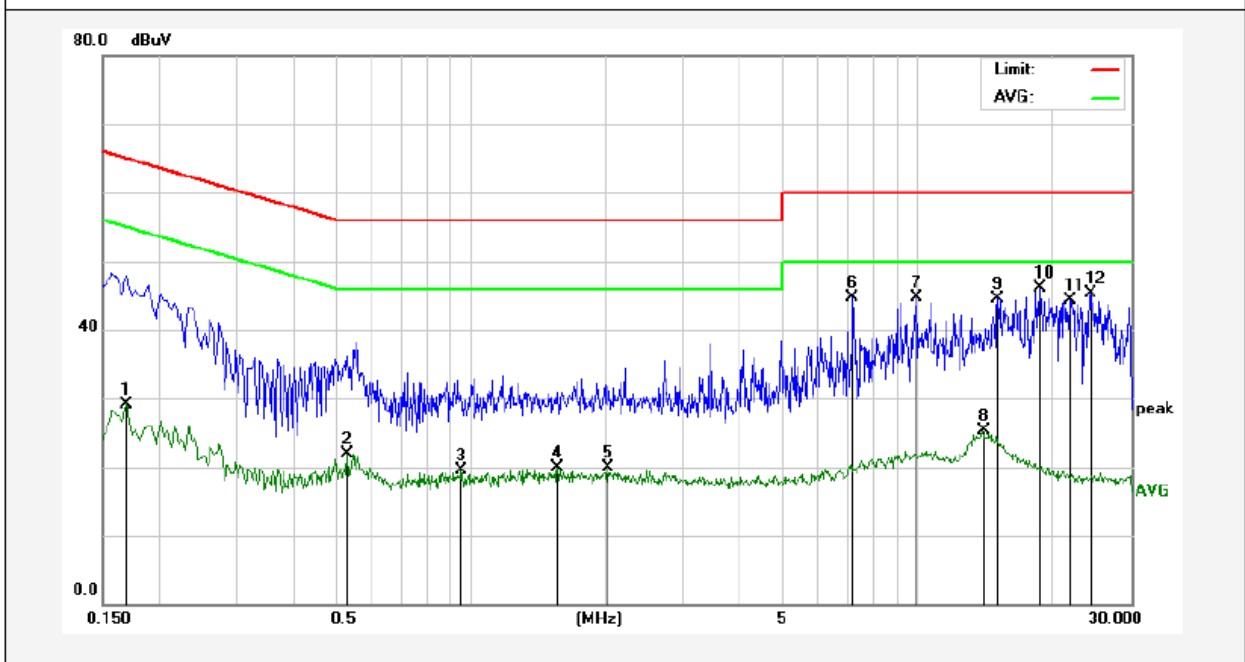
The frequency range from 150kHz to 30MHz is checked.

3.4. Test Data

Please to see the following pages

Conducted Emission Test Data

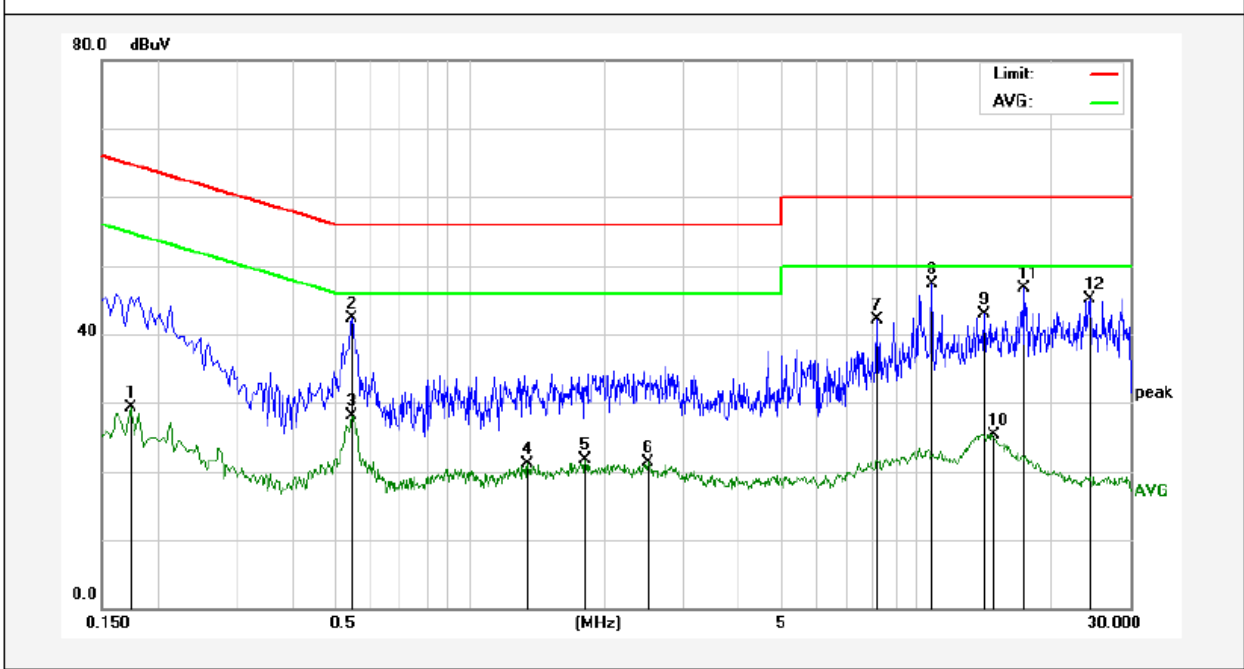
Test Site: 1# Shielded Room
 Operating Condition: Keeping TX mode
 Test Specification: AC 120V, 60Hz via adapter
 Comment: Live Line
 Tem.:25°C Hum.:50%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Over Limit (dB)	Detector	Remark
1	0.1700	9.30	19.90	29.20	54.96	-25.76	AVG	
2	0.5299	1.95	19.99	21.94	46.00	-24.06	AVG	
3	0.9580	-0.54	20.11	19.57	46.00	-26.43	AVG	
4	1.5660	-0.15	20.13	19.98	46.00	-26.02	AVG	
5	2.0260	-0.21	20.14	19.93	46.00	-26.07	AVG	
6	7.1620	24.39	20.26	44.65	60.00	-15.35	QP	
7	9.9180	24.36	20.34	44.70	60.00	-15.30	QP	
8	13.9580	4.99	20.28	25.27	50.00	-24.73	AVG	
9	15.0980	24.23	20.26	44.49	60.00	-15.51	QP	
10	18.7380	25.81	20.32	46.13	60.00	-13.87	QP	
11	21.8819	23.98	20.32	44.30	60.00	-15.70	QP	
12	24.4060	24.92	20.29	45.21	60.00	-14.79	QP	

Conducted Emission Test Data

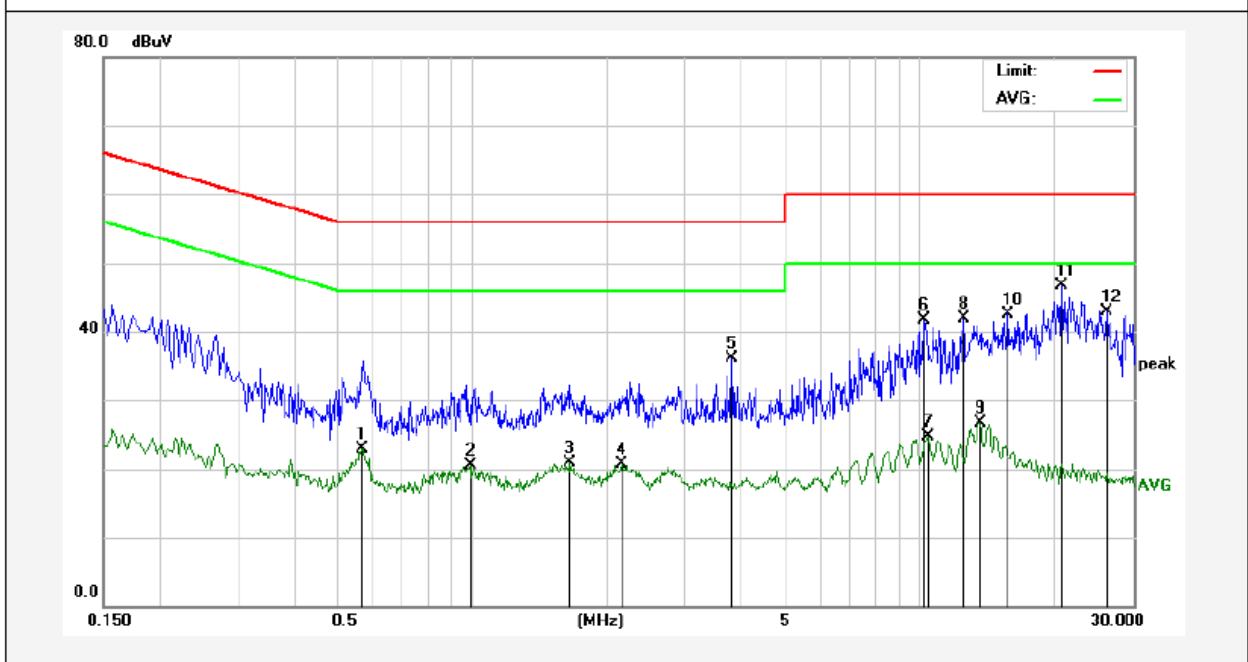
Test Site: 1# Shielded Room
 Operating Condition: Keeping TX mode
 Test Specification: AC 120V, 60Hz via adapter
 Comment: Neutral Line
 Tem.:25°C Hum.:50%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Over Limit (dB)	Detector	Remark
1	0.1740	9.42	19.90	29.32	54.76	-25.44	AVG	
2	0.5460	22.26	19.99	42.25	56.00	-13.75	QP	
3	0.5460	8.11	19.99	28.10	46.00	-17.90	AVG	
4	1.3460	0.96	20.13	21.09	46.00	-24.91	AVG	
5	1.8180	1.59	20.14	21.73	46.00	-24.27	AVG	
6	2.5100	1.19	20.15	21.34	46.00	-24.66	AVG	
7	8.1820	21.77	20.29	42.06	60.00	-17.94	QP	
8	10.8020	26.99	20.33	47.32	60.00	-12.68	QP	
9	14.1940	22.66	20.27	42.93	60.00	-17.07	QP	
10	14.8140	5.08	20.26	25.34	50.00	-24.66	AVG	
11	17.4740	26.50	20.30	46.80	60.00	-13.20	QP	
12	24.3220	24.84	20.29	45.13	60.00	-14.87	QP	

Conducted Emission Test Data

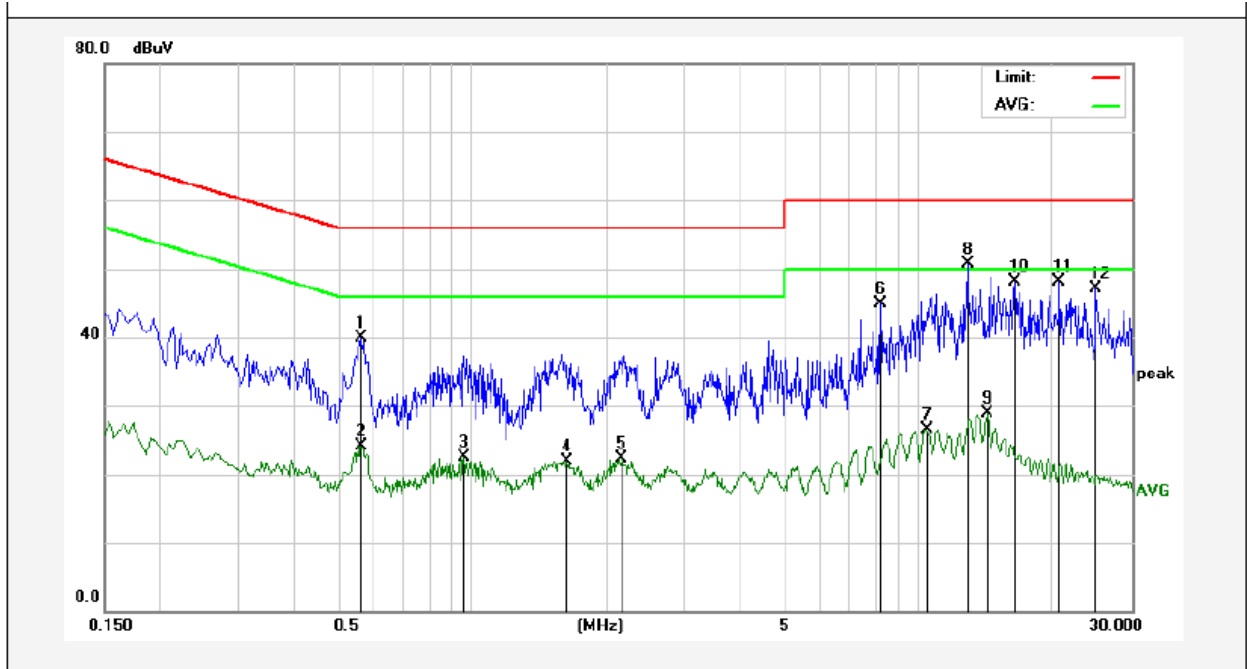
Test Site: 1# Shielded Room
 Operating Condition: Keeping TX mode
 Test Specification: AC 240V, 60Hz via adapter
 Comment: Live Line
 Tem.:25°C Hum.:50%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Over Limit (dB)	Detector	Remark
1	0.5700	2.83	20.00	22.83	46.00	-23.17	AVG	
2	0.9900	0.42	20.12	20.54	46.00	-25.46	AVG	
3	1.6540	0.78	20.13	20.91	46.00	-25.09	AVG	
4	2.1619	0.51	20.14	20.65	46.00	-25.35	AVG	
5	3.8060	15.96	20.18	36.14	56.00	-19.86	QP	
6	10.2660	21.30	20.34	41.64	60.00	-18.36	QP	
7	10.3979	4.32	20.33	24.65	50.00	-25.35	AVG	
8	12.5180	21.57	20.30	41.87	60.00	-18.13	QP	
9	13.6020	6.46	20.28	26.74	50.00	-23.26	AVG	
10	15.7540	22.33	20.27	42.60	60.00	-17.40	QP	
11	20.7500	26.37	20.33	46.70	60.00	-13.30	QP	
12	26.1900	22.67	20.28	42.95	60.00	-17.05	QP	

Conducted Emission Test Data

Test Site: 1# Shielded Room
 Operating Condition: Keeping TX mode
 Test Specification: AC 240V, 60Hz via adapter
 Comment: Neutral Line
 Tem.:25°C Hum.:50%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Over Limit (dB)	Detector	Remark
1	0.5660	19.99	20.00	39.99	56.00	-16.01	QP	
2	0.5660	4.18	20.00	24.18	46.00	-21.82	AVG	
3	0.9620	2.48	20.11	22.59	46.00	-23.41	AVG	
4	1.6340	1.85	20.13	21.98	46.00	-24.02	AVG	
5	2.1580	2.17	20.14	22.31	46.00	-23.69	AVG	
6	8.2340	24.69	20.29	44.98	60.00	-15.02	QP	
7	10.3740	6.22	20.33	26.55	50.00	-23.45	AVG	
8	12.9060	30.33	20.29	50.62	60.00	-9.38	QP	
9	14.2140	8.54	20.27	28.81	50.00	-21.19	AVG	
10	16.4740	27.81	20.28	48.09	60.00	-11.91	QP	
11	20.5980	27.71	20.33	48.04	60.00	-11.96	QP	
12	25.0340	26.77	20.28	47.05	60.00	-12.95	QP	

4. Radiation Spurious Emission and Band Edge

4.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.209 and 15.205				
Test Limit	Frequency (MHz)	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz~0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz-30MHz	30	-	-	30
	30MHz~88MHz	100	40.0	Quasi-peak	3
	88MHz~216MHz	150	43.5	Quasi-peak	3
	216MHz~960MHz	200	46.0	Quasi-peak	3
	960MHz~1000MHz	500	54.0	Quasi-peak	3
	Above 1000MHz	500	54.0	Average	3
		-	74.0	Peak	3

Remark:

(1)The lower limit shall apply at the transition frequency.

(2) 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.

Test Standard	FCC Part15 C Section 15.249					
Test Limit	Frequency (MHz)	Field Strength of fundamental ((millivolts /meter)	Field Strength of Harmonics (microvolts/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	902~908	50	-	94.0	Average	3
		-	-	114.0	Peak	3

Remark:

(1) 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.

4.2. Test Setup

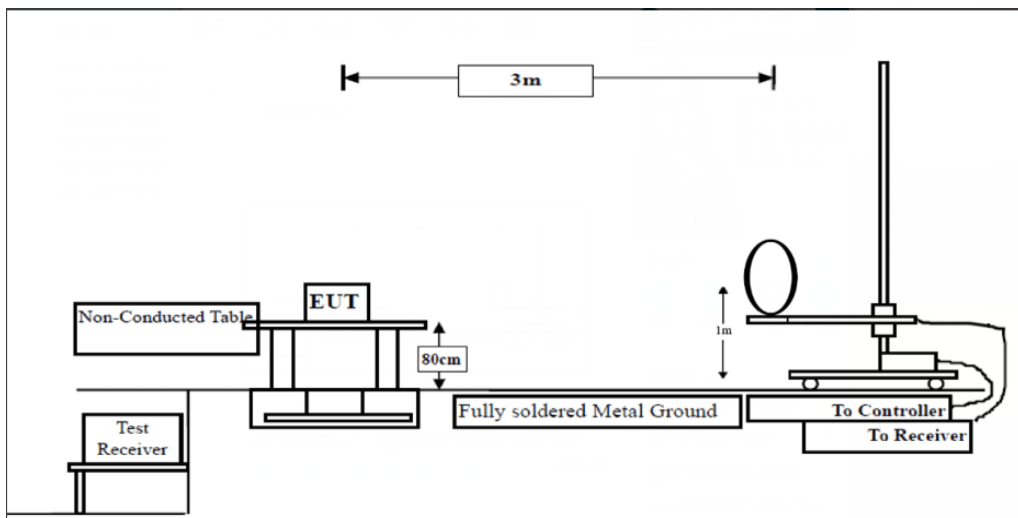


Figure 1. Below 30MHz

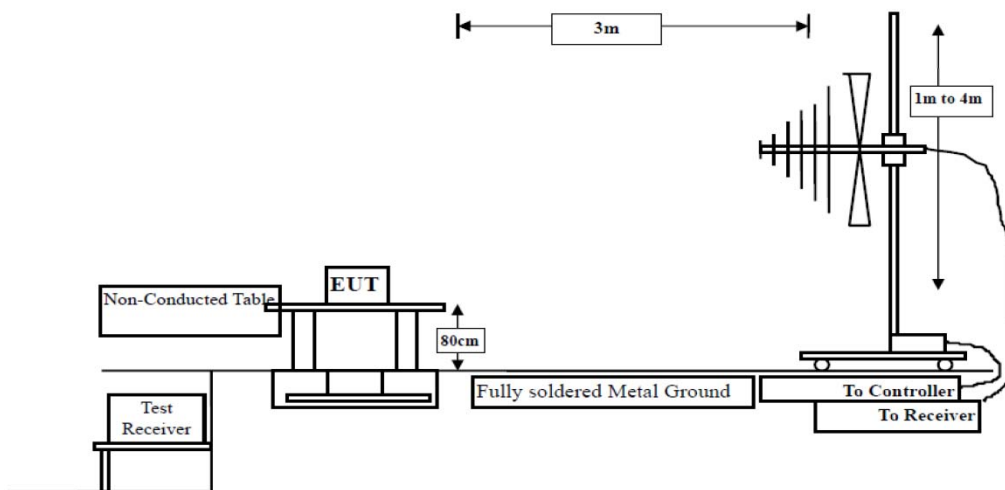


Figure 2. 30MHz to 1GHz

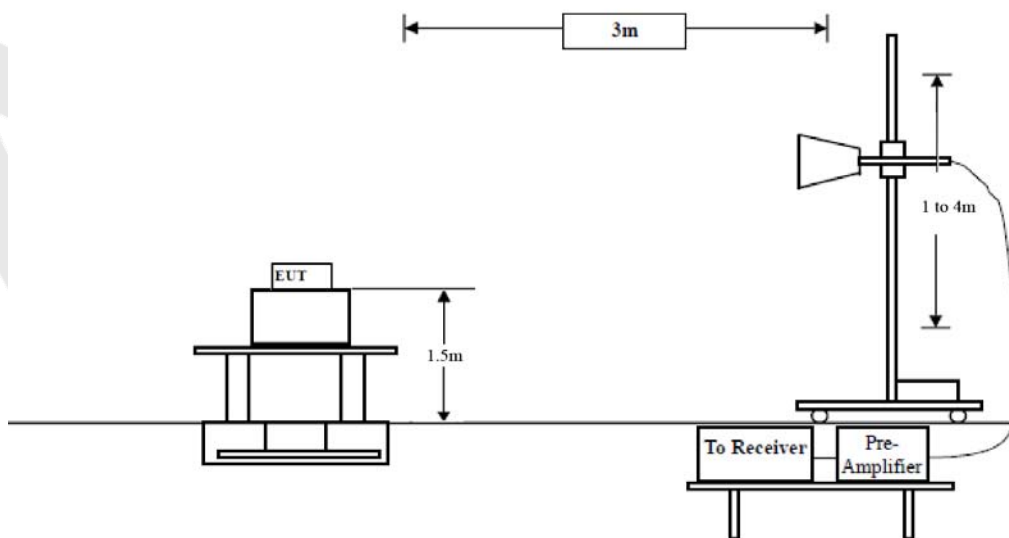


Figure 3. Above 1 GHz

4.3. Test Procedure

For below 1GHz: The EUT is placed on a turntable, which is 0.8m above the ground plane.

For above 1GHz: The EUT is placed on a turntable, which is 1.5m above the ground plane.

The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna which is mounted on a antenna tower. The antenna can be moved up and down from 1 to 4 meters to find out the maximum emission level. Rotated the EUT through three orthogonal axes to determine the maximum emissions, both horizontal and vertical polarization of the antenna are set on test. The EUT is tested in 9*6*6 Chamber. The device is evaluated in xyz orientation.

For 9kHz to 150kHz, Set the spectrum analyzer as:

RBW = 200Hz, VBW =1kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For 150kHz to 30MHz, Set the spectrum analyzer as:

RBW = 9KHz, VBW =30kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For above 1GHz,Set the spectrum analyzer as:

RBW =1MHz, VBW =1MHz, Detector= Peak, Trace mode= Max hold, Sweep- auto couple.

RBW =1MHz, VBW =10Hz, Detector= Average, Trace mode= Max hold, Sweep- auto couple.

4.4. Test Data

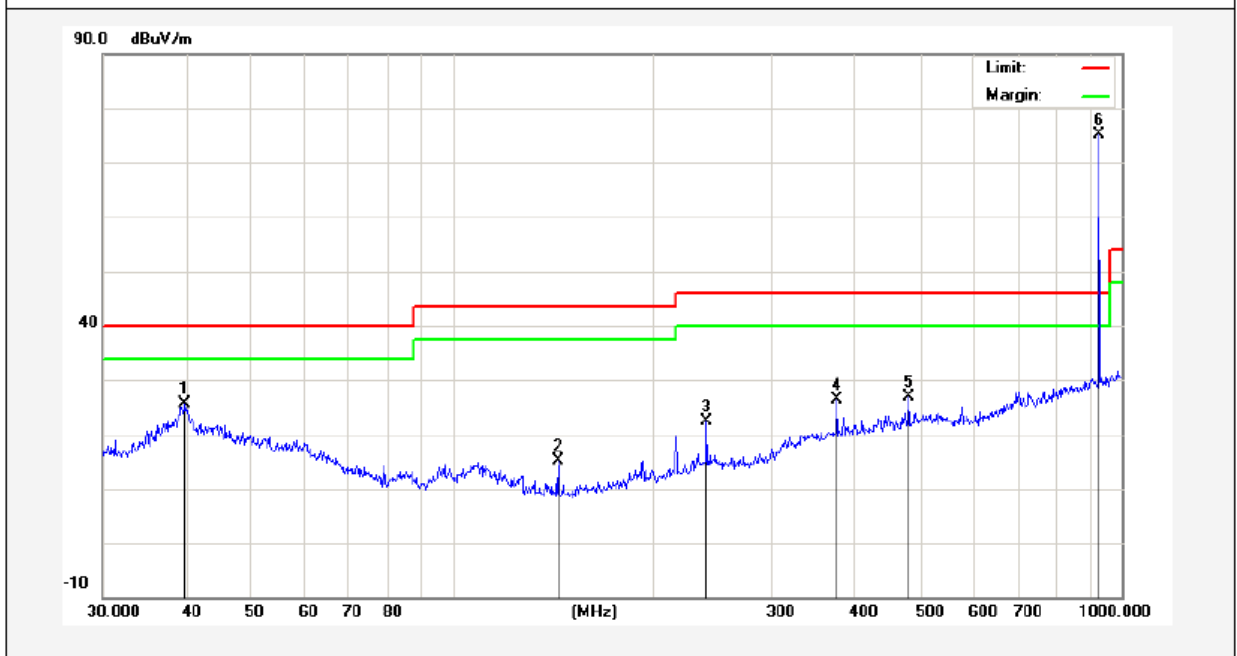
PASS

During the test, Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the X-axis is the worst case.

The test results of 9kHz-30MHz and above 18000MHz are attenuated more than 20dB below the permissible limits, so the results don't record in the report.

Test Results (30~1000MHz)

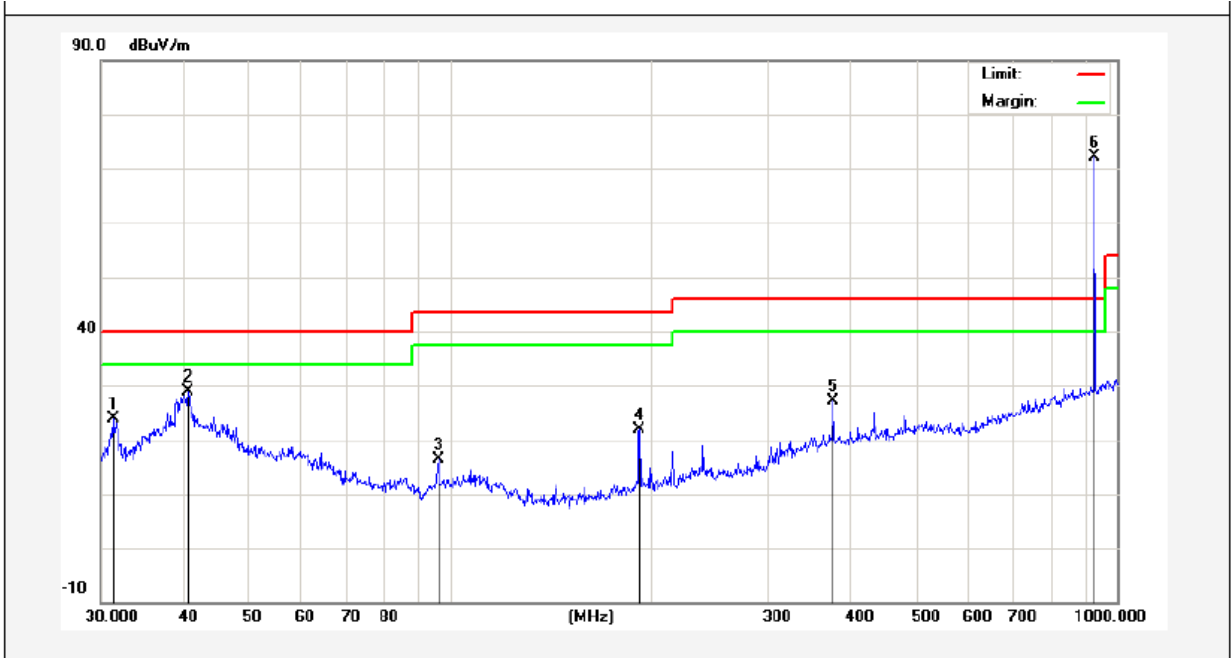
Job No.: 0217080021W3 Temp.(°C)/Hum.(%RH): 24.3°C/55%RH
 Standard: FCC PART 15C Power Source: AC 120V/60Hz
 Test Mode: TX Mode Polarization: Horizontal



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	39.8542	36.55	-10.98	25.57	40.00	-14.43	QP	300	320	
2	143.8295	38.62	-23.43	15.19	43.50	-28.31	QP	300	68	
3	239.9874	40.44	-18.09	22.35	46.00	-23.65	QP	300	247	
4	375.9385	39.77	-13.35	26.42	46.00	-19.58	QP	300	63	
5	480.5276	38.32	-11.53	26.79	46.00	-19.21	QP	300	174	
6	915.0000	79.56	-4.37	75.19	94.00	-18.81	QP	300	296	

Test Results (30~1000MHz)

Job No.: 0217080021W3 Temp.(°C)/Hum.(%RH): 24.3°C/55%RH
 Standard: FCC PART 15C Power Source: AC 120V/60Hz
 Test Mode: TX Mode Polarization: Vertical



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	31.2893	40.33	-16.33	24.00	40.00	-16.00	QP	300	67	
2	40.5591	39.88	-11.06	28.82	40.00	-11.18	QP	300	136	
3	96.0986	32.29	-15.97	16.32	43.50	-27.18	QP	300	175	
4	192.4186	37.87	-15.91	21.96	43.50	-21.54	QP	300	328	
5	375.9385	39.39	-12.35	27.04	46.00	-18.96	QP	300	269	
6	915.0000	75.57	-3.37	72.20	94.00	-21.80	QP	300	24	



Harmonics Emissions

Frequency	Antenna	Reading	Cable Loss	Ant Factor	Amplifier	Level	Limits	Margin	Det.
(MHz)	Pol.	(dBuV/m)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Mode
1830.9000	H	48.59	7.39	28.73	26.31	58.40	74	-15.60	PK
1830.9000	H	38.26	7.39	28.73	26.31	48.07	54	-5.93	AV
2746.6000	H	45.97	8.10	29.71	27.01	56.77	74	-17.23	PK
2746.6000	H	35.45	8.10	29.71	27.01	46.25	54	-7.75	AV
3662.2000	H	--	--	--	--	--	--	--	PK
3662.2000	H	--	--	--	--	--	--	--	AV
1830.9000	V	45.17	7.39	28.73	26.31	54.98	74	-19.02	PK
1830.9000	V	37.44	7.39	28.73	26.31	47.25	54	-6.75	AV
2746.6000	V	45.18	8.10	29.71	27.01	55.98	74	-18.02	PK
2746.6000	V	36.85	8.10	29.71	27.01	47.65	54	-6.35	AV
3662.2000	V	--	--	--	--	--	--	--	PK
3662.2000	V	--	--	--	--	--	--	--	AV

Remark :

1. Level = Reading + Cable Loss+Ant Factor-Amplifier
2. "--" Mark indicated Background Noise Level

Radiated Band Edge:

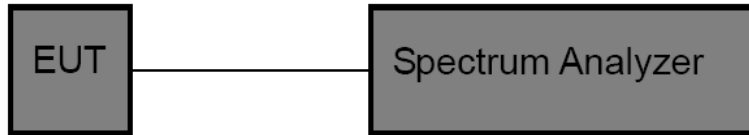
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.	Det.
902.0000	38.94	22.45	4.48	31.33	34.54	46.00	-11.46	H	QP
928.0000	39.65	22.59	4.54	31.35	35.43	46.00	-10.57	H	QP
902.0000	41.54	22.45	4.48	31.33	37.14	46.00	-8.86	V	QP
928.0000	41.98	22.59	4.54	31.35	37.76	46.00	-8.24	V	QP

5. 20dB Bandwidth Test

5.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.249
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5.2. Test Setup



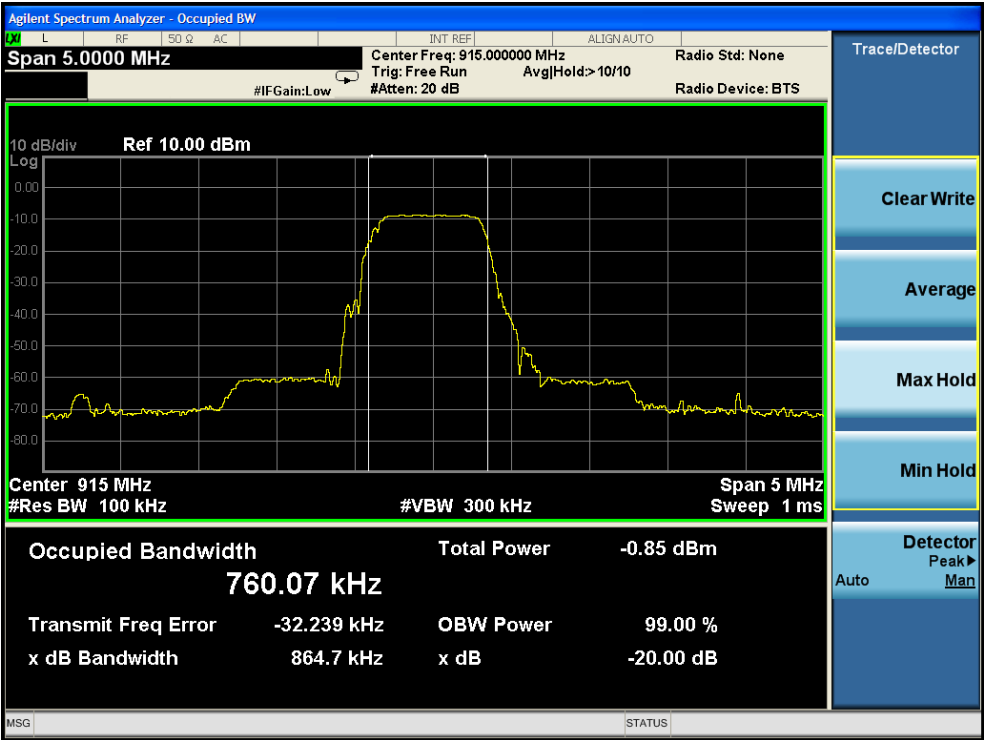
5.3. Test Procedure

1. Place the EUT on the table and set it in the transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set the spectrum analyzer as:
 RBW = 100kHz, VBW \geq 3*RBW = 300kHz,
 Detector= peak
 Trace mode= Max hold.
 Sweep- auto couple.
4. Mark the peak frequency and -20dB (upper and lower) frequency.
5. Repeat until all the rest channels are investigated.

5.4. Test Data

Test Item	: 20dB Bandwidth	Test Mode	: TX Mode
Test Voltage	: AC 120V/60Hz	Temperature	: 24°C
Test Result	: PASS	Humidity	: 55%RH

Frequency (MHz)	Bandwidth (kHz)	Result
915	864.7	PASS



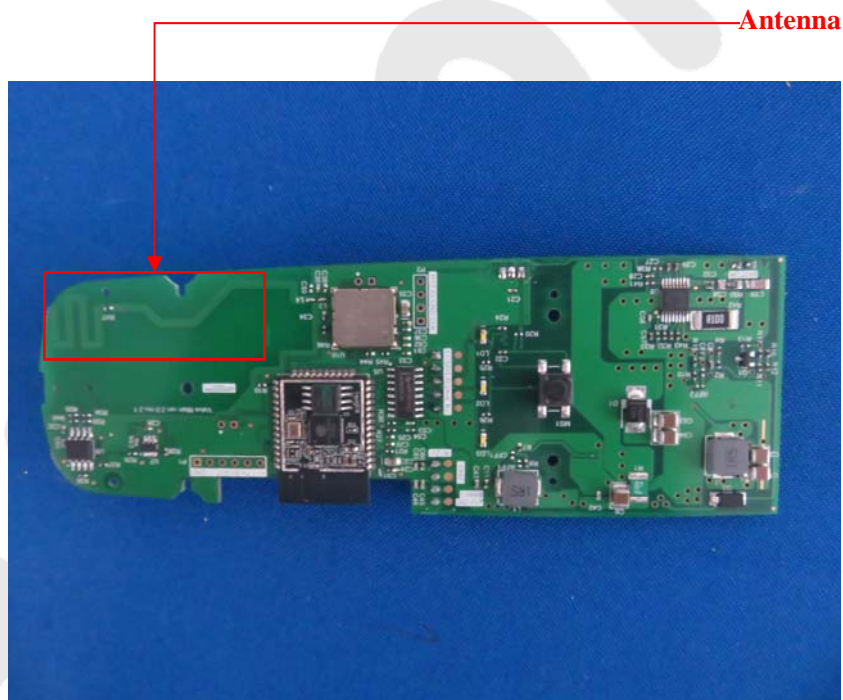
6. Antenna Requirement

6.1. Test Standard and Requirement

Test Standard	FCC Part15 Section 15.203
Requirement	1) 15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

6.2. Antenna Connected Construction

The antenna is a PCB antenna which permanently attached, and the best case gain of the antenna is 2.0 dBi. It complies with the standard requirement.

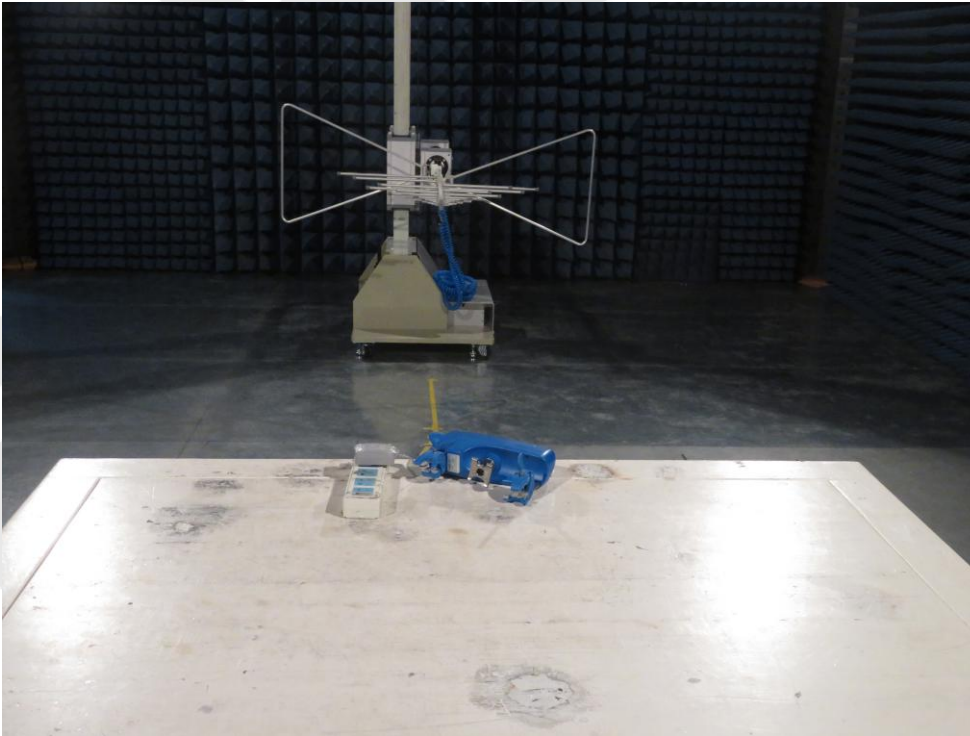


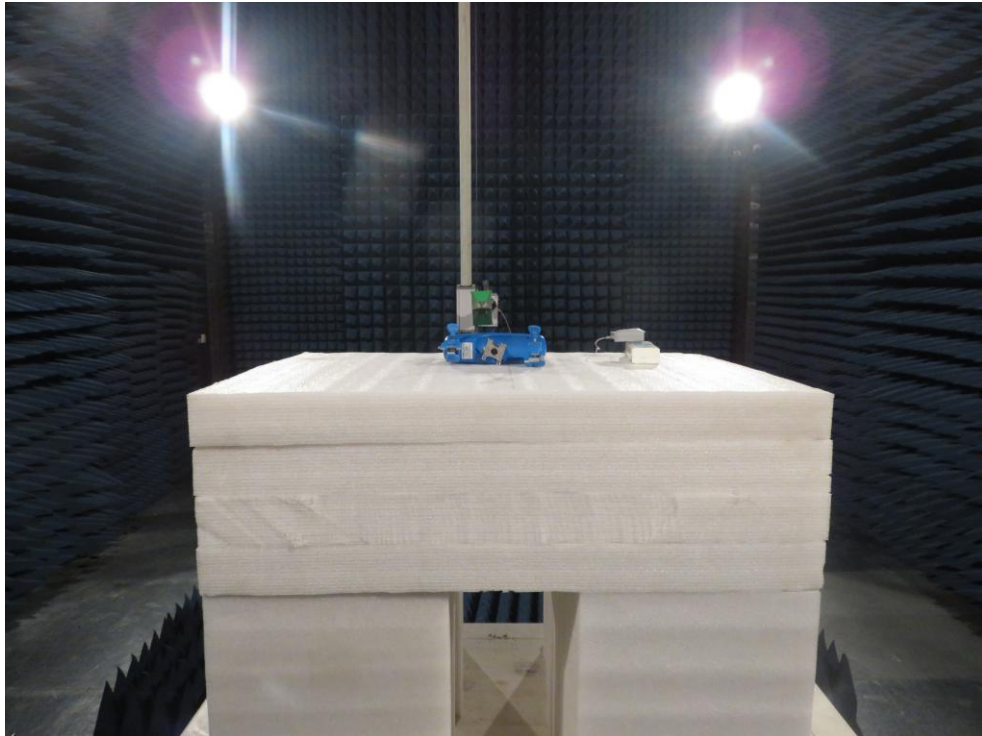
APPENDIX I -- TEST SETUP PHOTOGRAPH

Photo of Conducted Emission Test



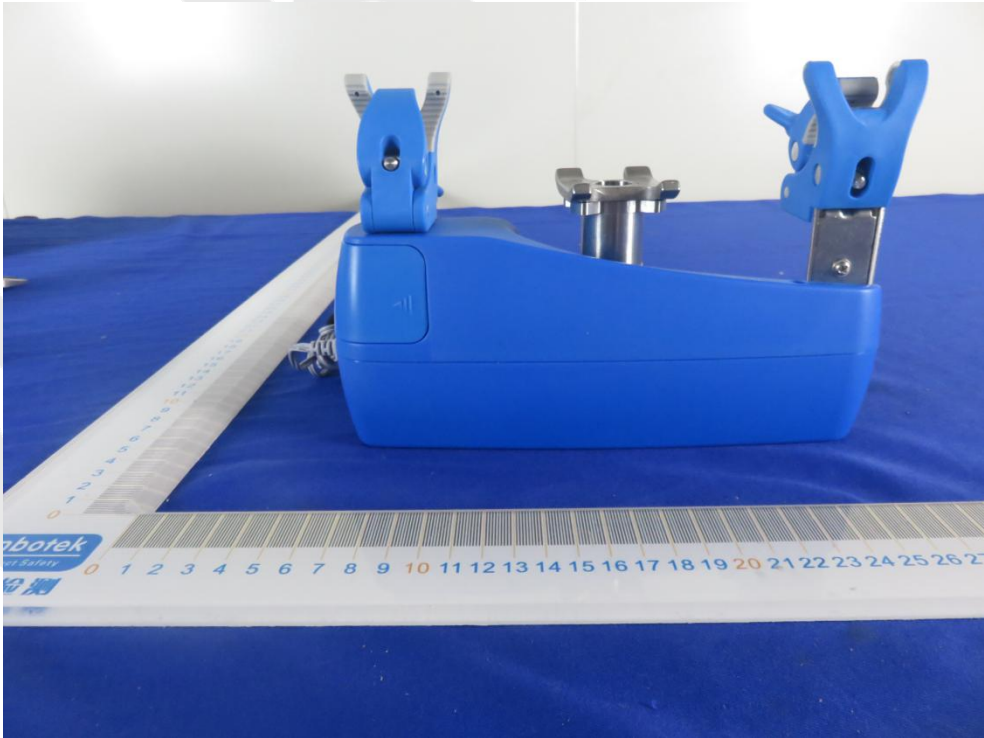
Photo of Radiation Emission Test

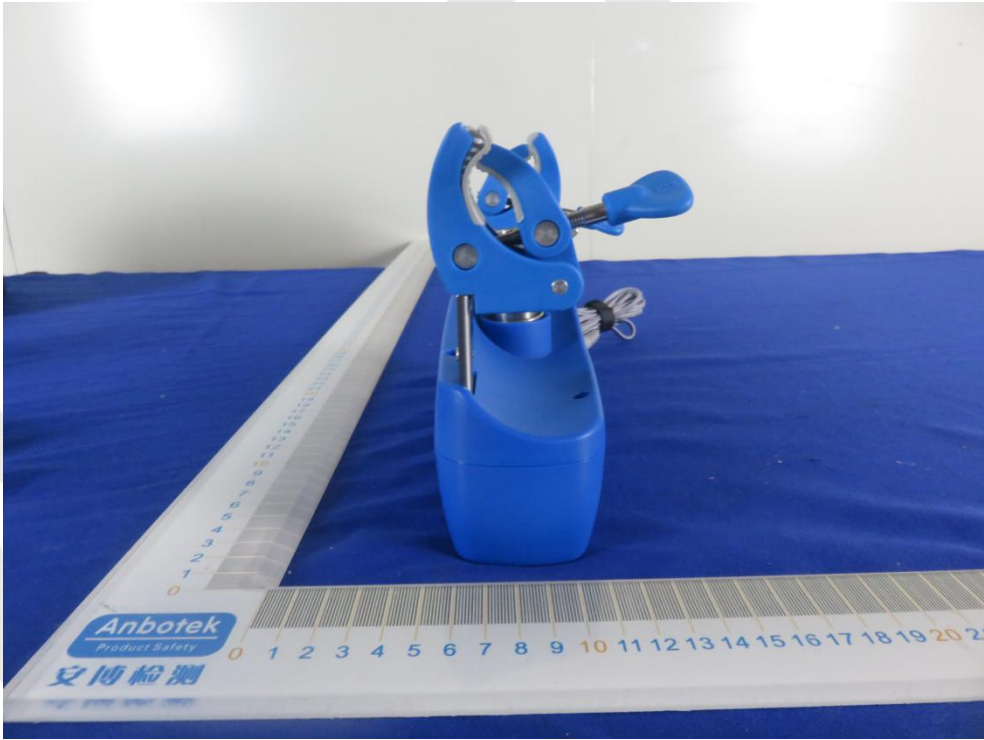
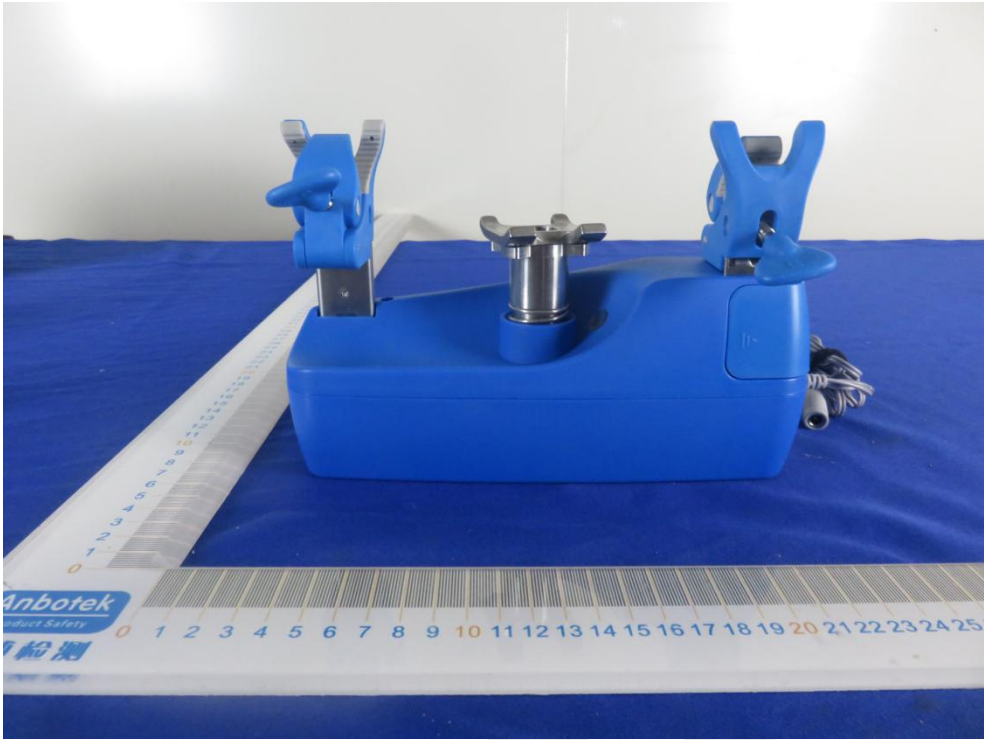


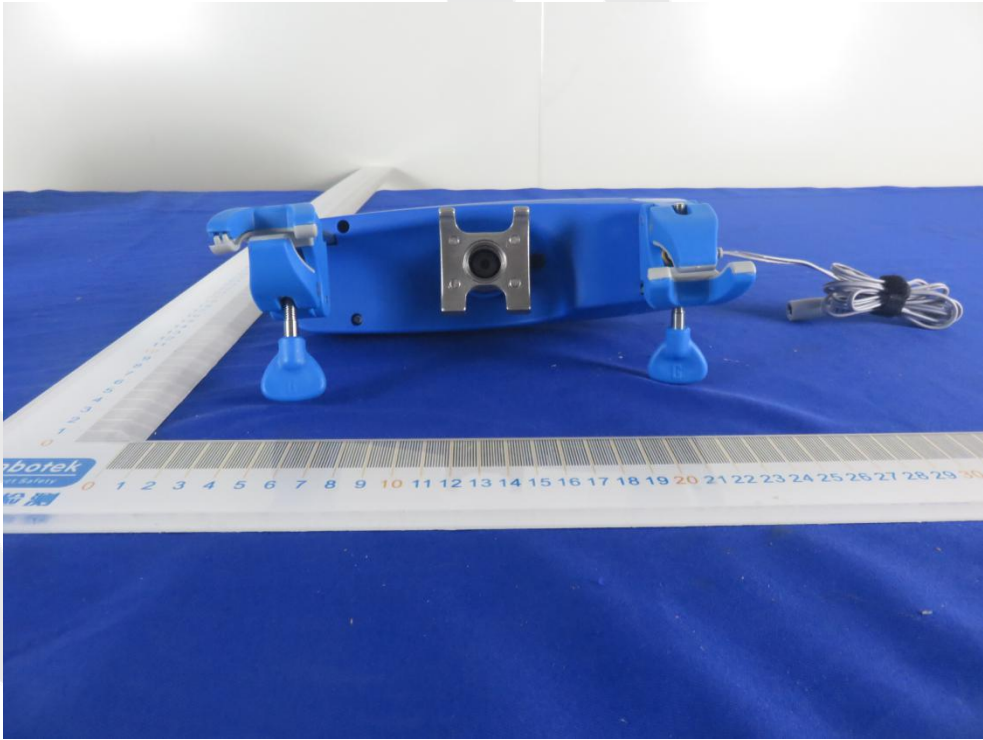


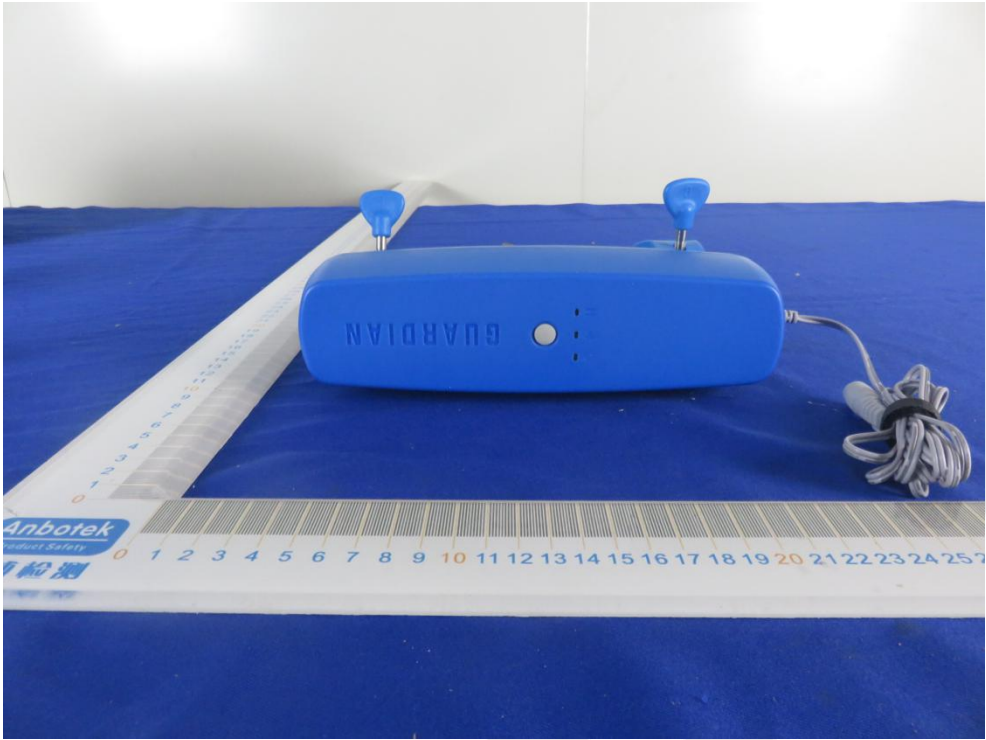
Anbotek

APPENDIX II -- EXTERNAL PHOTOGRAPH









APPENDIX III(Internal Photos)

