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Report Template Version: V04

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FCC Test Report

Report No. : CQASZ20200300140E-01
Applicant: Schneider Electric (China) Co., Ltd., Shenzhen Branch
Address of Applicant: Room 201, Building A, No. 1 Qianwanyi Road, Shengang Cooperation Zone, Qianhai, Shenzhen, China
Equipment Under Test (EUT):
EUT Name: Z-wave dimmer
Model No.: SQR22101WHZ, SQR22101LAZ, SQR22101BKZ
Test Model No.: SQR22101WHZ
Brand Name: Schneider Electric, Square D
FCC ID: 2AUCU-22101Z
Standards: 47 CFR Part 15, Subpart C
Date of Receipt: 2020-03-12
Date of Test: 2020-03-12 to 2020-06-04
Date of Issue: 2020-06-04
Test Result : PASS*

*In the configuration tested, the EUT complied with the standards specified above

Tested By:

Tom Chen

(Tom Chen)

Reviewed By:

Aaron Ma

(Aaron Ma)

Approved By:

Jack Ai

(Jack Ai)



1 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20200300140E-01	Rev.01	Initial report	2020-06-04

2 Test Summary

Test Item	Test Requirement	Test method	Result
Antenna Requirement	47 CFR Part 15, Subpart C Section 15.203	ANSI C63.10 (2013)	PASS
AC Power Line Conducted Emission	47 CFR Part 15, Subpart C Section 15.207	ANSI C63.10 (2013)	PASS
Field Strength of the Fundamental Signal	47 CFR Part 15, Subpart C Section 15.249 (a)	ANSI C63.10 (2013)	PASS
Spurious Emissions	47 CFR Part 15, Subpart C Section 15.249 (a)/15.209	ANSI C63.10 (2013)	PASS
Restricted bands around fundamental frequency (Radiated Emission)	47 CFR Part 15, Subpart C Section 15.249(a)/15.205	ANSI C63.10 (2013)	PASS
20dB Occupied Bandwidth	47 CFR Part 15, Subpart C Section 15.215 (c)	ANSI C63.10 (2013)	PASS

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4 General Information

4.1 Client Information

Applicant:	Schneider Electric (China) Co., Ltd., Shenzhen Branch
Address of Applicant:	Room 201, Building A, No. 1 Qianwanyi Road, Shengang Cooperation Zone, Qianhai, Shenzhen, China
Manufacturer:	Schneider Electric (China) Co., Ltd., Shenzhen Branch
Address of Manufacturer:	Room 201, Building A, No. 1 Qianwanyi Road, Shengang Cooperation Zone, Qianhai, Shenzhen, China

4.2 General Description of EUT

Product Name:	Z-wave dimmer
Model No.:	SQR22101WHZ, SQR22101LAZ, SQR22101BKZ
Test Model No.:	SQR22101WHZ
Trade Mark:	Schneider Electric, Square D
Hardware Version:	DC-HW01/AC-HW01
Software Version:	V1.08
Frequency Range:	908.4MHz ~ 916MHz
Modulation Type:	GFSK
Number of Channels:	3 (declared by the client)
Sample Type:	☐ Mobile ☐ Portable ☒ Fix Location
Test Software of EUT:	RF test (manufacturer declare)
Antenna Type:	External antenna
Antenna Gain:	0dBi
Power Supply:	120V 60Hz

Note:

Model: SQR22101WHZ, SQR22101LAZ, SQR22101BKZ

Only the model SQR22101WHZ was tested, since the electrical circuit design, layout, components used and internal wiring were identical for the above models, with difference being color of appearance.

Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	908.4MHz	2	908.42MHz	3	916MHz		

Note:

In section 15.31(m), regards to the operating frequency range 1 MHz to 10 MHz, the Lowest frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency
The Lowest channel(CH1)	908.4MHz
The Middle channel(CH2)	908.42MHz
The Highest channel(CH3)	916MHz

4.3 Test Environment and Mode

Operating Environment:	
Radiated Emissions:	
Temperature:	24.6 °C
Humidity:	48 % RH
Atmospheric Pressure:	1009mbar
Conducted Emissions:	
Temperature:	26.5 °C
Humidity:	56 % RH
Atmospheric Pressure:	1009mbar
Radio conducted item test (RF Conducted test room):	
Temperature:	27 °C
Humidity:	68 % RH
Atmospheric Pressure:	1009mbar
Test mode:	
Transmitting mode:	Use test software (RF test) to set the lowest frequency, the middle frequency and the highest frequency keep transmitting of the EUT.

4.4 Description of Support Units

The EUT has been tested with associated equipment below.

Description	Manufacturer	Model No.	Supplied by	FCC certification
-	-	-	-	-

4.5 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 **Shenzhen Huaxia Testing Technology Co., Ltd** 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.

Hereafter the best measurement capability for **CQA** laboratory is reported:

Test	Range	Uncertainty	Notes
Radiated Emission	Below 1GHz	5.12dB	(1)
Radiated Emission	Above 1GHz	4.60dB	(1)
Conducted Disturbance	0.15~30MHz	3.34dB	(1)

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

4.6 Test Location

All tests were performed at:

Shenzhen Huaxia Testing Technology Co., Ltd.,

1F., Block A of Tongsheng Technology Building, Huahui Road, Dalang Street, Longhua District, Shenzhen, China

4.7 Test Facility

- **A2LA (Certificate No. 4742.01)**

Shenzhen Huaxia Testing Technology Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 4742.01.

- **FCC Registration No.: 522263**

Shenzhen Huaxia Testing Technology Co., Ltd., Shenzhen 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.:522263

4.8 Deviation from Standards

None.

4.9 Abnormalities from Standard Conditions

None.

4.10 Other Information Requested by the Customer

None.

4.11 Equipment List

Test Equipment	Manufacturer	Model No.	Instrument No.	Calibration Date	Calibration Due Date
EMI Test Receiver	R&S	ESR7	CQA-005	2019/10/25	2020/10/24
Spectrum analyzer	R&S	FSU26	CQA-038	2019/10/25	2020/10/24
Preamplifier	MITEQ	AMF-6D-02001800-29-20P	CQA-036	2019/10/25	2020/10/24
Loop antenna	Schwarzbeck	FMZB1516	CQA-060	2019/10/21	2020/10/20
Bilog Antenna	R&S	HL562	CQA-011	2019/9/26	2020/9/25
Horn Antenna	R&S	HF906	CQA-012	2019/9/26	2020/9/25
Horn Antenna	Schwarzbeck	BBHA 9170	CQA-088	2019/9/25	2020/9/24
Coaxial Cable (Above 1GHz)	CQA	N/A	C007	2019/9/26	2020/9/25
Coaxial Cable (Below 1GHz)	CQA	N/A	C013	2019/9/26	2020/9/25
Antenna Connector	CQA	RFC-01	CQA-080	2019/9/26	2020/9/25
RF cable(9KHz~40GHz)	CQA	RF-01	CQA-079	2019/9/26	2020/9/25
Power divider	MIDWEST	PWD-2533-02-SMA-79	CQA-067	2019/9/26	2020/9/25

Note:

The temporary antenna connector is soldered on the PCB board in order to perform conducted tests and this temporary antenna connector is listed in the equipment list.

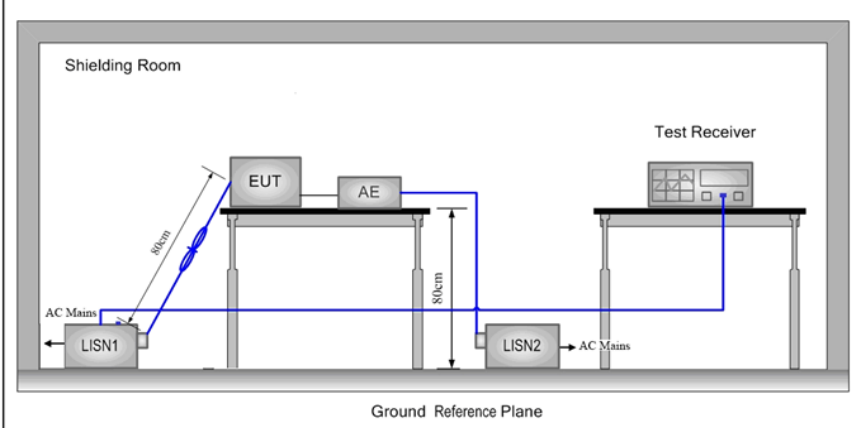
5 Test results and Measurement Data

5.1 Antenna Requirement

Standard requirement:	47 CFR Part 15C Section 15.203
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.	
EUT Antenna:	Please see EUT internal photos
The antenna is external antenna. The best case gain of the antenna is 0dBi.	

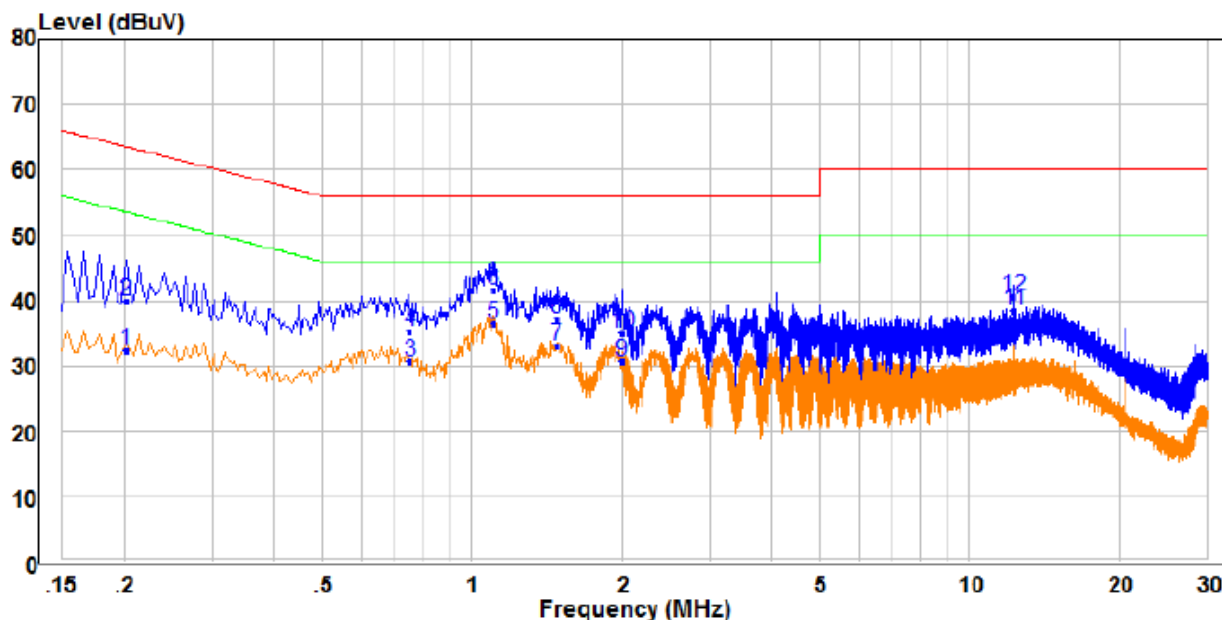
5.2 Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.207		
Test Method:	ANSI C63.10: 2013		
Test Frequency Range:	150kHz to 30MHz		
Limit:	Frequency range (MHz)	Limit (dBuV)	
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
* Decreases with the logarithm of the frequency.			
Test Procedure:	1) The mains terminal disturbance voltage test was conducted in a shielded room. 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded. 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane, 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2. 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement.		

Test Setup:	
Exploratory Test Mode:	Transmitting mode with all kind of data type at the lowest, middle, high channel.
Final Test Mode:	Through Pre-scan, find the GFSK modulation at the highest channel is the worst case. Only the worst case is recorded in the report.
Test Voltage:	AC 120V/60Hz
Test Results:	Pass

Measurement Data

Live line:

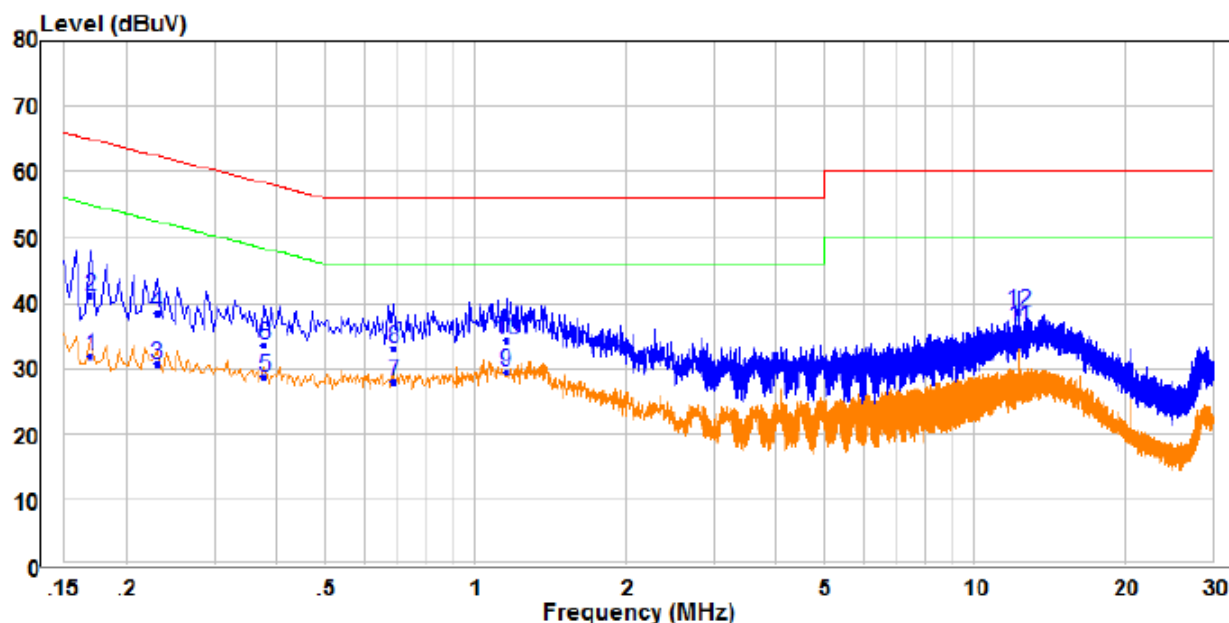


	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark	Pol/Phase
	MHz	dBuV	dB	dBuV	dBuV	dB		
1	0.202	22.93	9.49	32.42	53.53	-21.11	Average	Line
2	0.202	30.32	9.49	39.81	63.53	-23.72	QP	Line
3	0.750	20.90	9.81	30.71	46.00	-15.29	Average	Line
4	0.750	25.48	9.81	35.29	56.00	-20.71	QP	Line
5 PP	1.102	26.97	9.53	36.50	46.00	-9.50	Average	Line
6 QP	1.102	32.09	9.53	41.62	56.00	-14.38	QP	Line
7	1.482	23.47	9.52	32.99	46.00	-13.01	Average	Line
8	1.482	27.59	9.52	37.11	56.00	-18.89	QP	Line
9	2.002	21.19	9.53	30.72	46.00	-15.28	Average	Line
10	2.002	25.38	9.53	34.91	56.00	-21.09	QP	Line
11	12.289	28.50	9.86	38.36	50.00	-11.64	Average	Line
12	12.289	30.84	9.86	40.70	60.00	-19.30	QP	Line

Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level = Receiver Reading + LISN Factor + Cable Loss.
3. If the Peak value under Average limit, the Average value is not recorded in the report.

Neutral line:



	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark	Pol/Phase
	MHz	dBuV	dB	dBuV	dBuV	dB		
1	0.170	22.40	9.48	31.88	54.96	-23.08	Average	Neutral
2	0.170	31.72	9.48	41.20	64.96	-23.76	QP	Neutral
3	0.230	21.26	9.48	30.74	52.45	-21.71	Average	Neutral
4	0.230	28.92	9.48	38.40	62.45	-24.05	QP	Neutral
5	0.378	19.11	9.53	28.64	48.32	-19.68	Average	Neutral
6	0.378	23.98	9.53	33.51	58.32	-24.81	QP	Neutral
7	0.686	18.19	9.82	28.01	46.00	-17.99	Average	Neutral
8	0.686	23.27	9.82	33.09	56.00	-22.91	QP	Neutral
9	1.154	19.73	9.72	29.45	46.00	-16.55	Average	Neutral
10	1.154	24.67	9.72	34.39	56.00	-21.61	QP	Neutral
11 PP	12.285	26.32	9.94	36.26	50.00	-13.74	Average	Neutral
12 QP	12.285	28.70	9.94	38.64	60.00	-21.36	QP	Neutral

Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level = Receiver Reading + LISN Factor + Cable Loss.
3. If the Peak value under Average limit, the Average value is not recorded in the report.

5.3 Radiated Emission

Test Requirement:	47 CFR Part 15C Section 15.249 and 15.209 and 15.205				
Test Method:	ANSI C63.10: 2013				
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)				
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark
	0.009MHz-0.090MHz	Peak	10kHz	30KHz	Peak
	0.009MHz-0.090MHz	Average	10kHz	30KHz	Average
	0.090MHz-0.110MHz	Quasi-peak	10kHz	30KHz	Quasi-peak
	0.110MHz-0.490MHz	Peak	10kHz	30KHz	Peak
	0.110MHz-0.490MHz	Average	10kHz	30KHz	Average
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	100 kHz	300KHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
		Peak	1MHz	10Hz	Average
Note: For fundamental frequency, RBW=5MHz, VBW=5MHz, Peak detector is for PK value, RMS detector is for Average value.					
Limit: (Spurious Emissions and band edge)	Frequency	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-1GHz	500	54.0	Quasi-peak	3
	Above 1GHz	500	54.0	Average	3
	Note: 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. 2) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.				
Limit: (Field strength of the fundamental signal)	Frequency	Limit (dBuV/m @3m)		Remark	
	2400MHz-2483.5MHz	94.0		Average Value	
		114.0		Peak Value	

Test Setup:

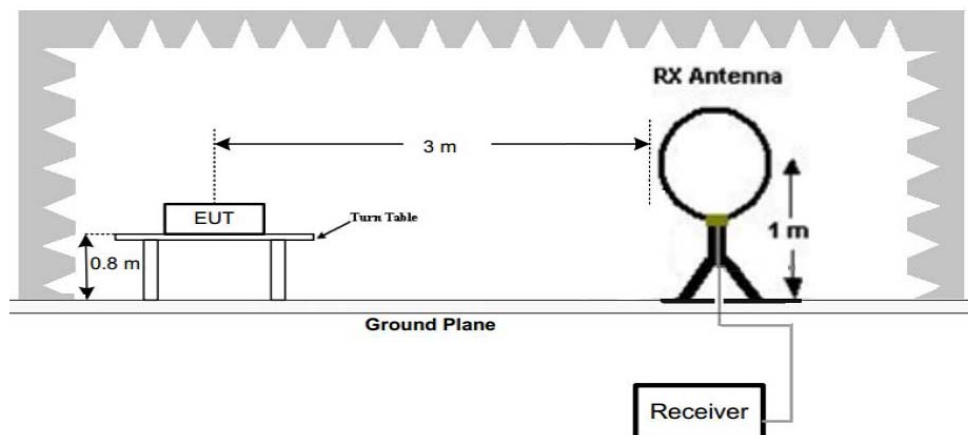


Figure 1. Below 30MHz

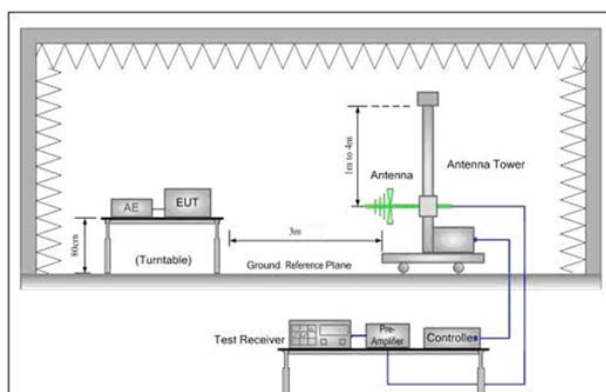


Figure 2. 30MHz to 1GHz

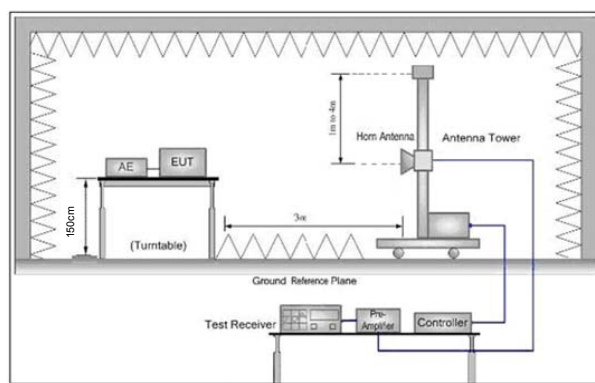


Figure 3. Above 1 GHz

Test Procedure:

- 1) Below 1G: The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
 - 2) Above 1G: The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- Note: For the radiated emission test above 1GHz:
Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
 - c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
 - d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of

	below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. g. Test the EUT in the lowest channel,the middle channel,the Highest channel h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode,And found the X axis positioning which it is worse case. i. Repeat above procedures until all frequencies measured was complete.
Exploratory Test Mode:	Transmitting mode.
Final Test Mode:	Pretest the EUT at Transmitting mode, For below 1GHz part, through pre-scan, the worst case is the highest channel. Only the worst case is recorded in the report.
Test Results:	Pass

Field Strength of the Fundamental Signal

Lowest channel:

Worse case mode:		GFSK		Test channel:		Lowest	
Frequency (MHz)	Read Level (dBuV)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Ant. Pol. H/V
908.4	50.24	23.42	73.66	114	-40.34	Peak	V
908.4	53.27	23.42	76.69	114	-37.31	Peak	H

Lowest channel:

Worse case mode:		GFSK		Test channel:		Middle	
Frequency (MHz)	Read Level (dBuV)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Ant. Pol. H/V
908.42	50.42	23.42	73.84	114	-40.16	Peak	V
908.42	53.65	23.42	77.07	114	-36.93	Peak	H

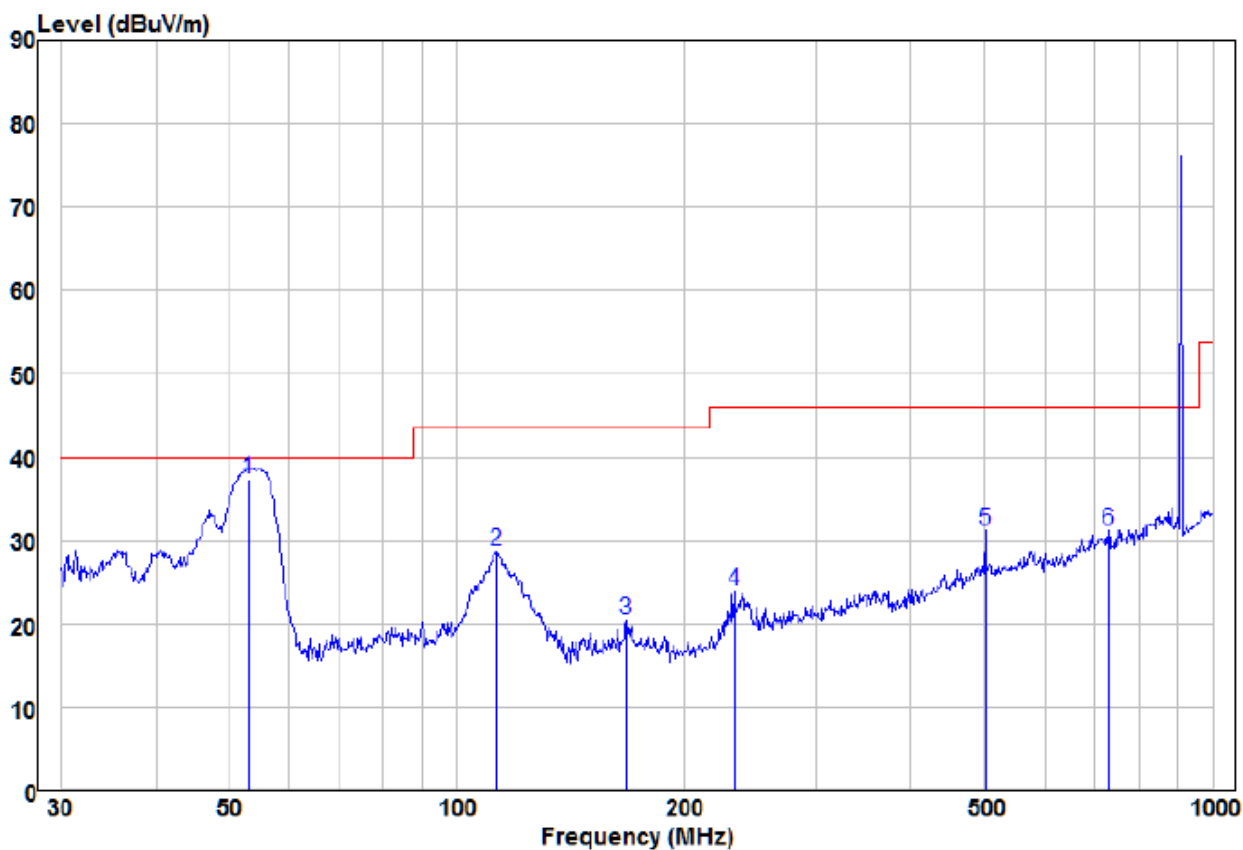
Highest channel:

Worse case mode:		GFSK		Test channel:		Highest	
Frequency (MHz)	Read Level (dBuV)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Ant. Pol. H/V
916	51.19	23.42	74.61	114	-39.39	Peak	V
916	54.16	23.42	77.58	114	-36.42	Peak	H

Measurement Data

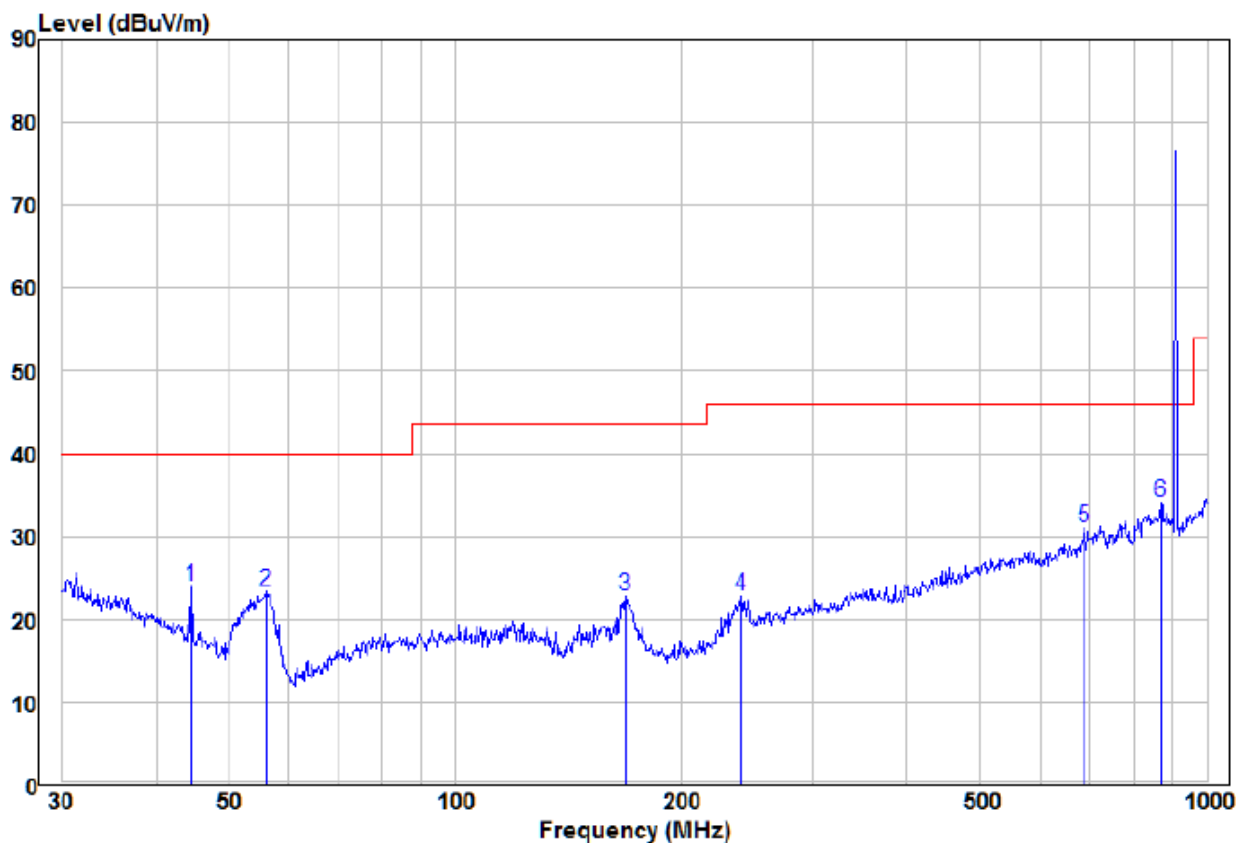
30MHz~1GHz

Test mode: Transmitting Vertical



		Read		Limit	Over		
	Freq	Level	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Pol/Phase
1	pp	53.13	29.99	7.45	37.44	40.00	-2.56 QP
2		112.92	18.45	10.33	28.78	43.50	-14.72 Peak
3		167.82	12.81	7.65	20.46	43.50	-23.04 Peak
4		233.35	13.23	10.82	24.05	46.00	-21.95 Peak
5		501.18	12.94	18.29	31.23	46.00	-14.77 Peak
6	pk	729.36	10.09	21.29	31.38	46.00	-14.62 Peak

Test mode:	Charge + Transmitting	Horizontal
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	Read			Limit	Over		
Freq	Level	Factor	Level	Line	Limit	Remark	Pol/Phase
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1	44.59	13.42	10.65	24.07	40.00	-15.93 Peak	HORIZONTAL
2	56.00	16.79	6.65	23.44	40.00	-16.56 Peak	HORIZONTAL
3	168.41	15.18	7.64	22.82	43.50	-20.68 Peak	HORIZONTAL
4	239.99	11.27	11.56	22.83	46.00	-23.17 Peak	HORIZONTAL
5	687.15	10.51	20.57	31.08	46.00	-14.92 Peak	HORIZONTAL
6 pp	869.13	10.24	23.97	34.21	46.00	-11.79 Peak	HORIZONTAL

Remark:

The frequencies (902~928MHz) on which the transmitter part of the EUT is intended to operate shall be excluded from radiated emission measurements when performed in transmit mode of operation

Above 1GHz							
Test mode:		Transmitting		Test channel:		Lowest	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
1816.8	58.00	-6.65	51.34	74	-22.66	Peak	H
2725.2	55.58	-6.13	49.45	74	-24.55	Peak	H
1816.8	56.45	-6.21	50.24	74	-23.76	peak	V
2725.2	54.08	-8.80	45.28	74	-28.72	peak	V

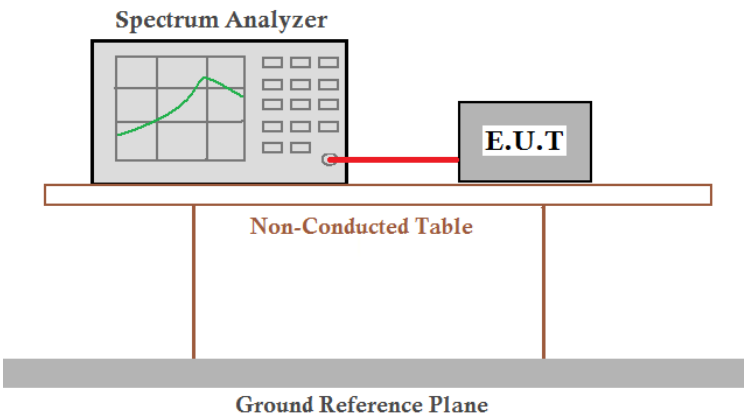
Test mode:		Transmitting		Test channel:		Middle	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
1816.84	58.08	-6.65	51.43	74	-22.57	peak	H
2725.26	58.22	-6.13	52.09	74	-21.91	peak	H
1816.84	57.57	-6.21	51.36	74	-22.64	peak	V
2725.26	57.77	-8.8	48.97	74	-25.03	peak	V

Test mode:		Transmitting		Test channel:		Highest	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
1832.0	56.71	-5.04	51.68	74	-22.32	peak	H
2748.0	57.82	-6.44	51.38	74	-22.62	peak	H
1832.0	57.35	-8.20	49.15	74	-24.85	peak	V
2748.0	57.30	-9.90	47.40	74	-26.60	peak	V

Remark:

- 1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor
- 2) Scan from 9kHz to 10GHz, The disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported .

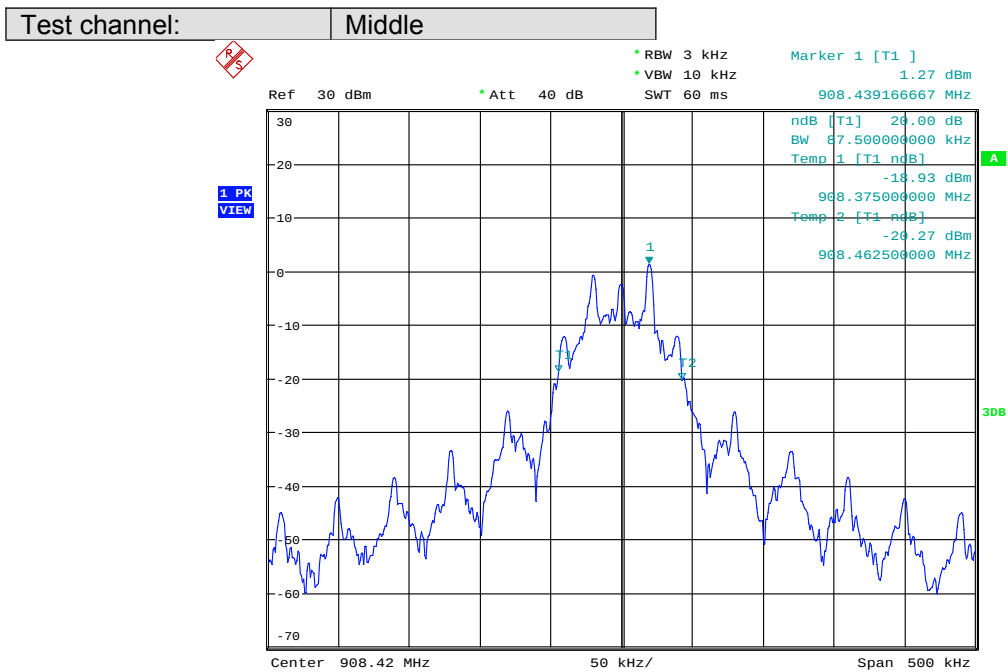
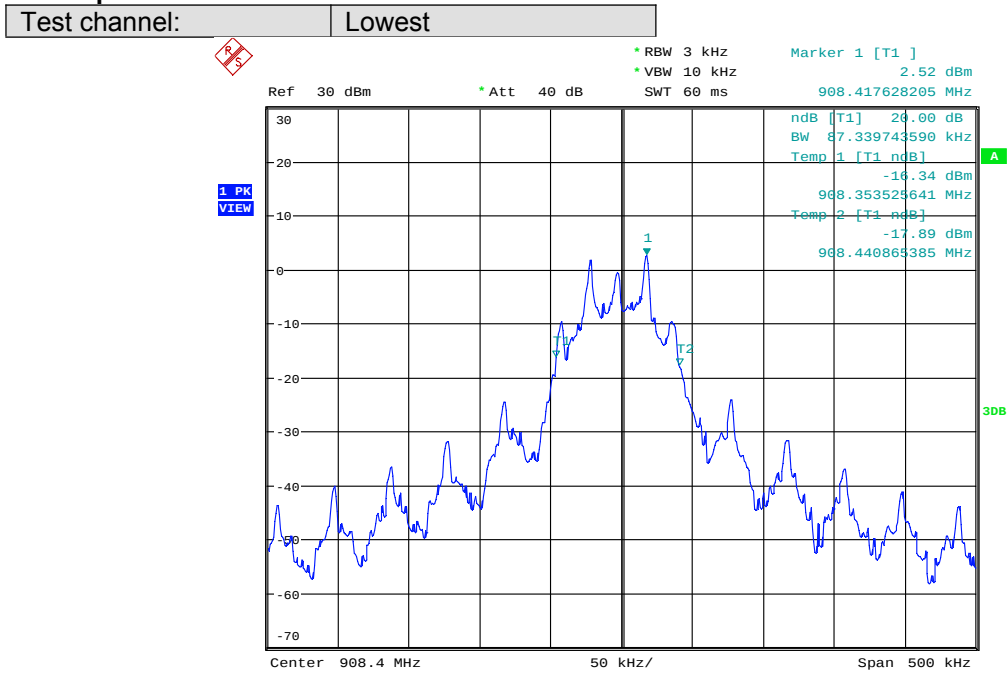
5.4 20dB Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.215
Test Method:	ANSI C63.10:2013
Test Setup:	 The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T. (Equipment Under Test) via a red cable. Both the Spectrum Analyzer and the E.U.T. are placed on a Non-Conducted Table. The table is supported by a Ground Reference Plane.
Test Mode:	Transmitting with GFSK modulation.
Limit:	N/A
Test Results:	Pass

Measurement Data

Test channel	20dB bandwidth (MHz)	Results
Lowest	0.087	Pass
Middle	0.088	Pass
Highest	0.114	Pass

Test plot as follows:





6 Photographs

6.1 Radiated Emission Test Setup

9KHz~30MHz



30MHz~1GHz:



Above 1GHz:

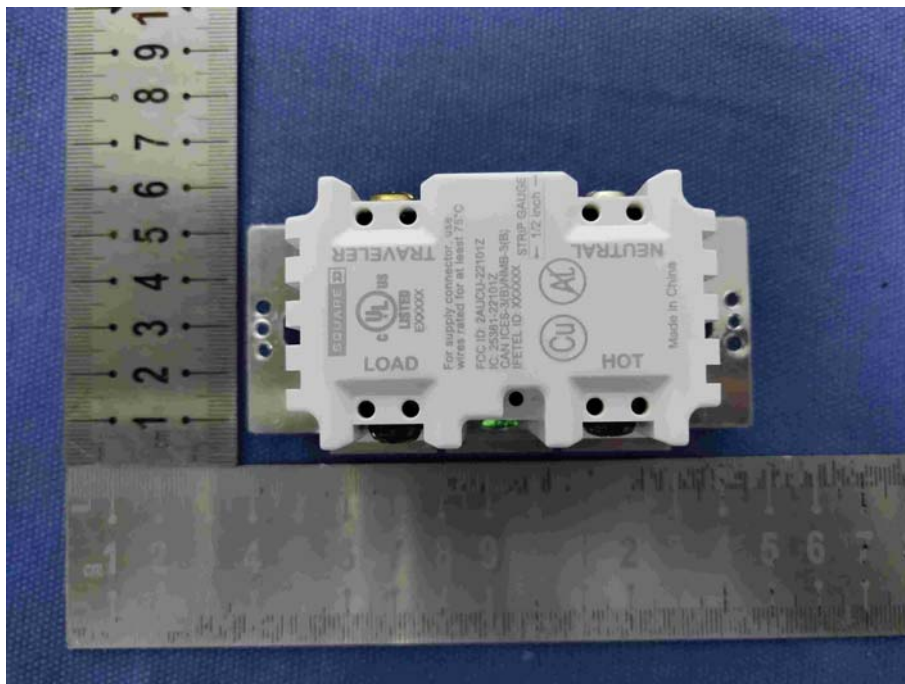
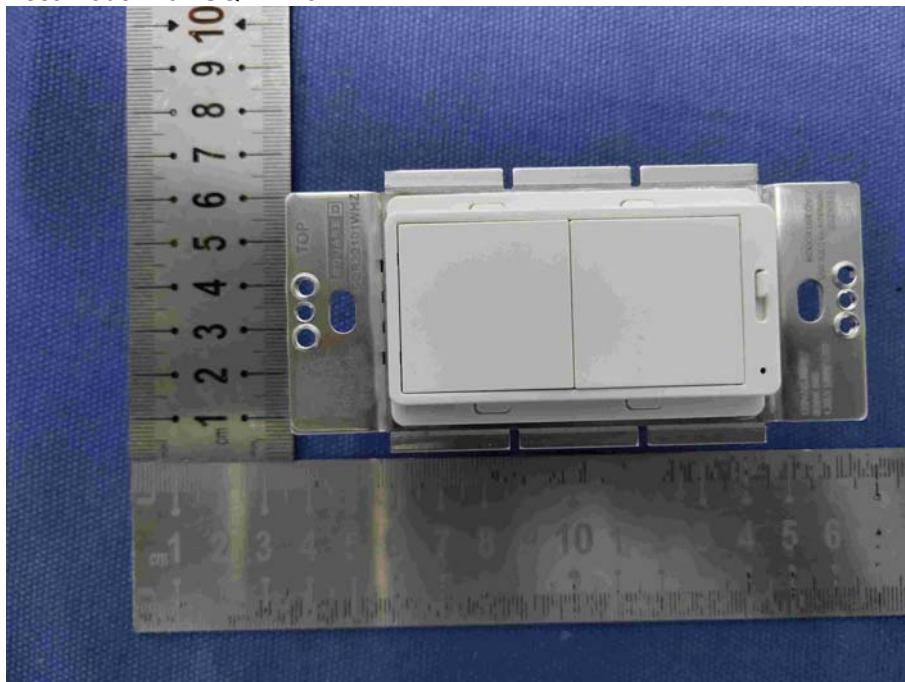


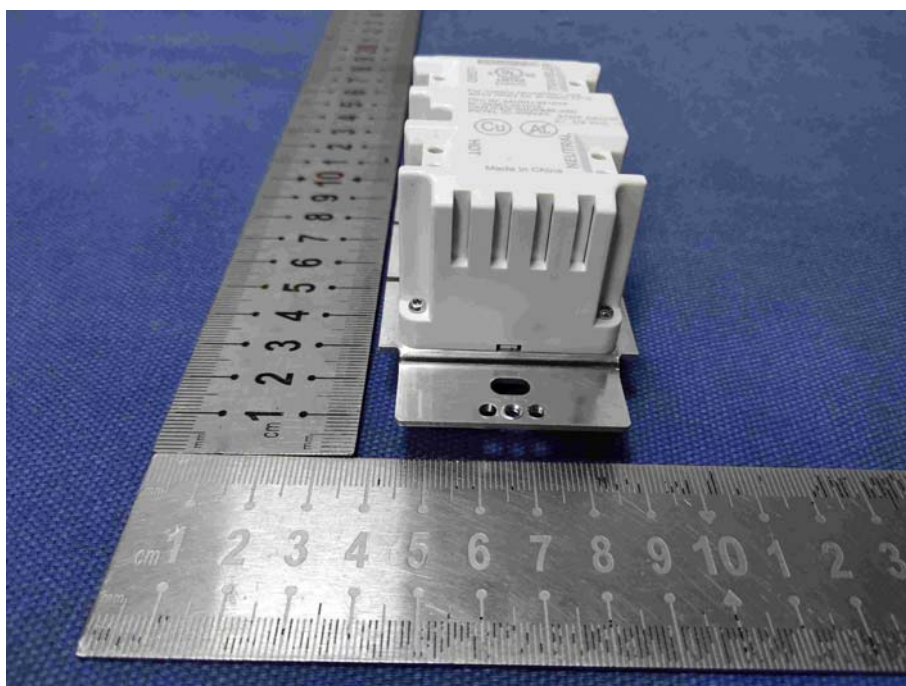
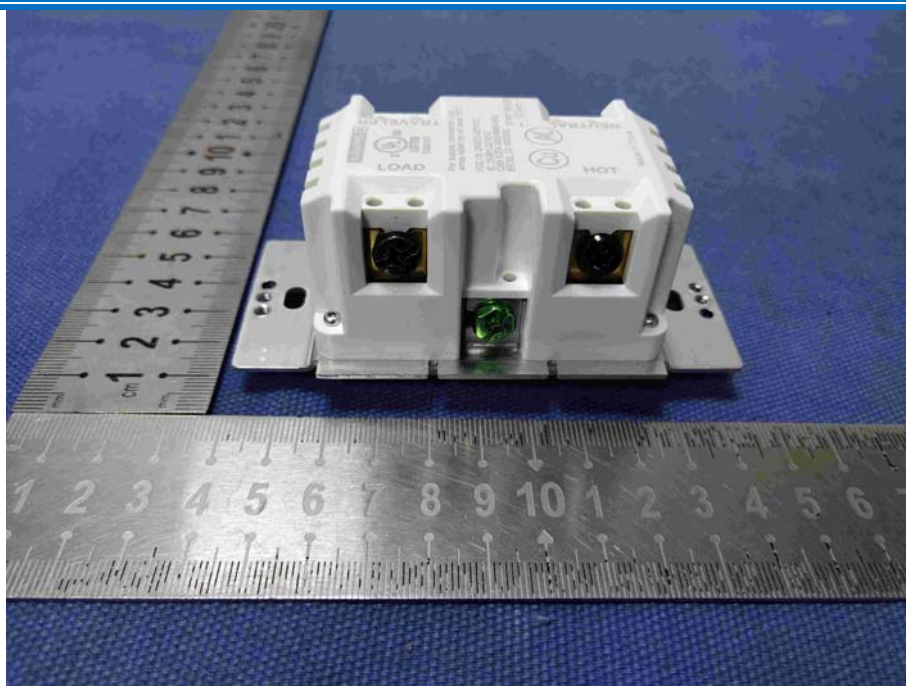
6.2 Conducted Emission

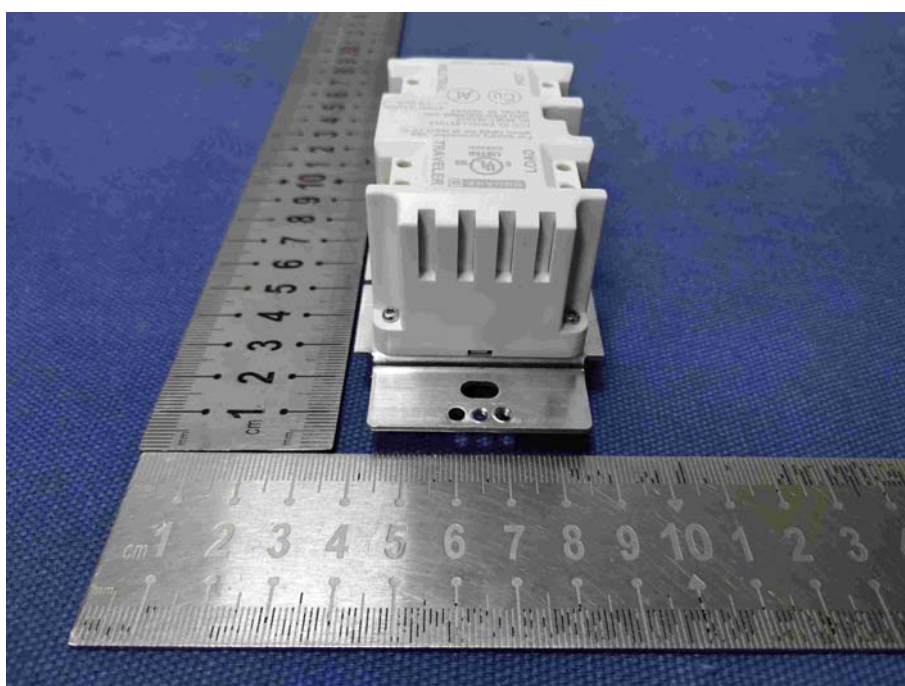
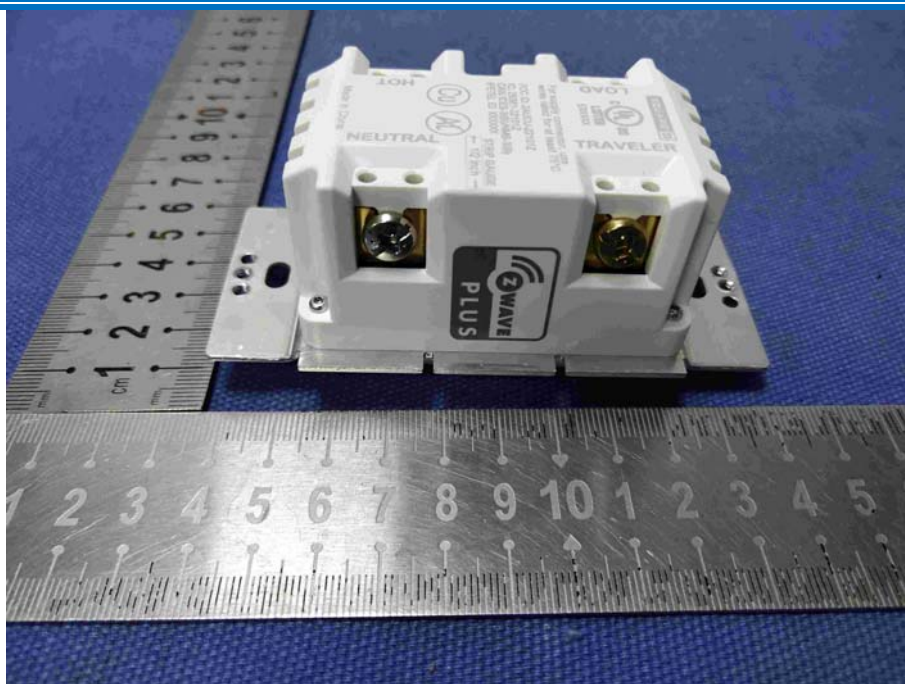


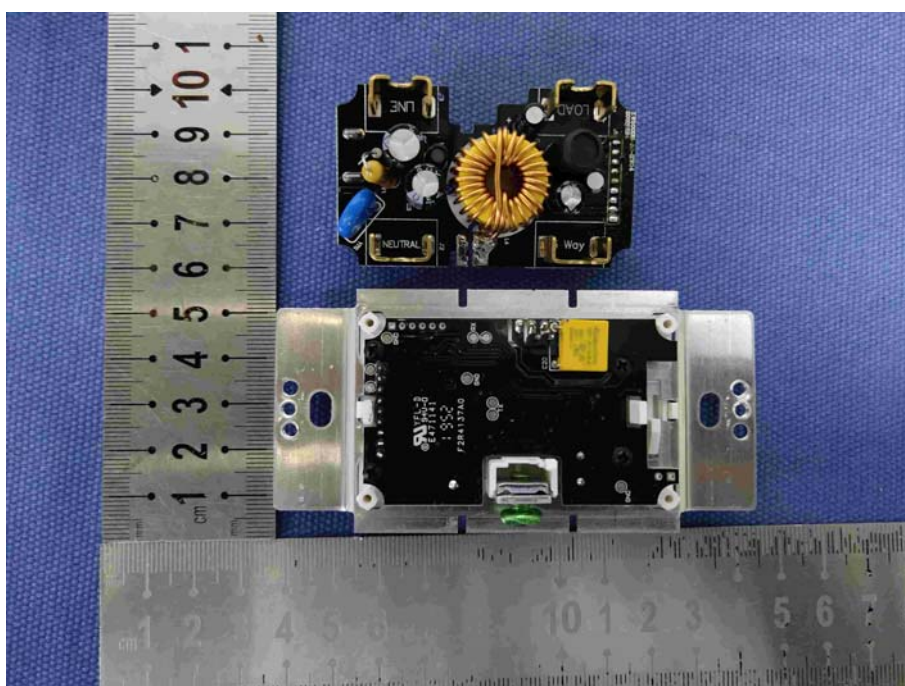
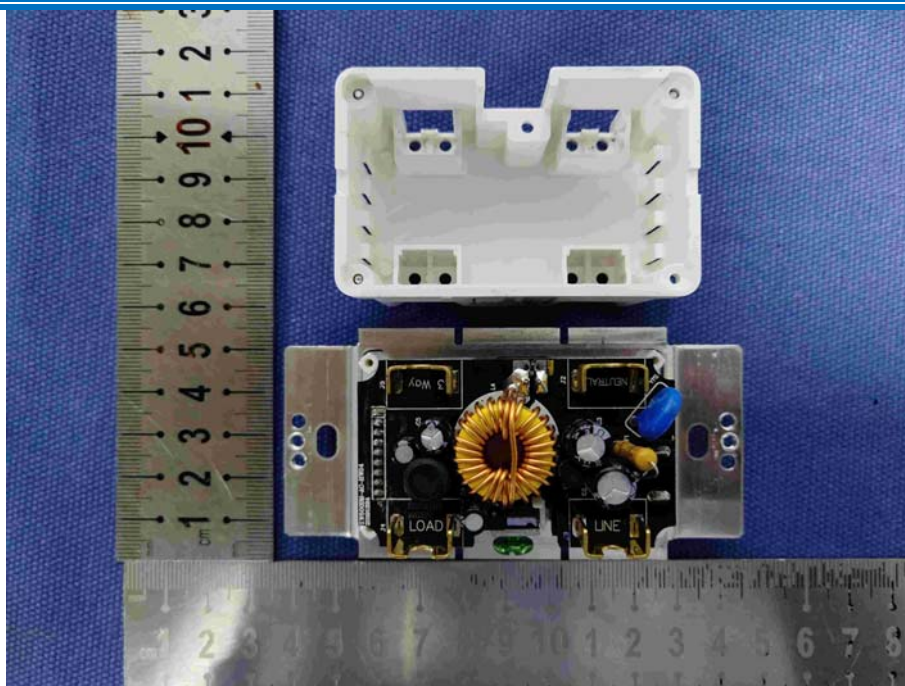
6.3 EUT Constructional Details

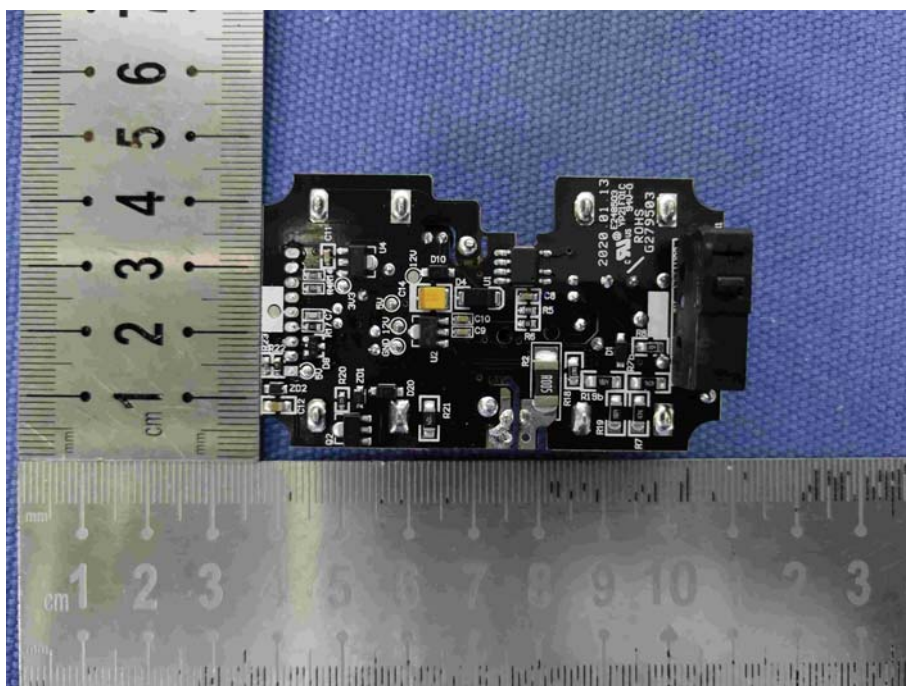
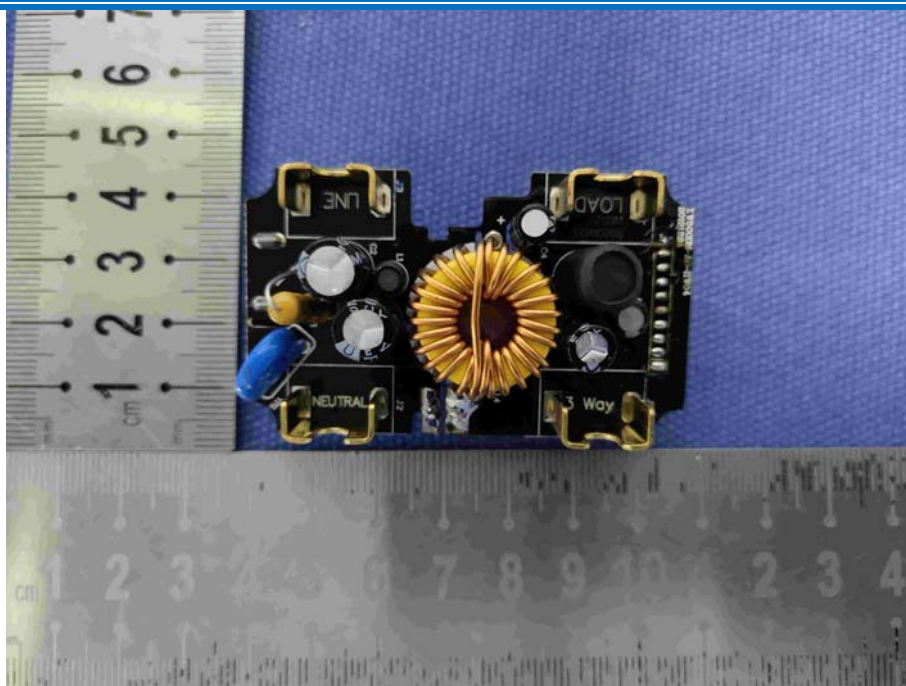
Test Model No.: SQR22101WHZ

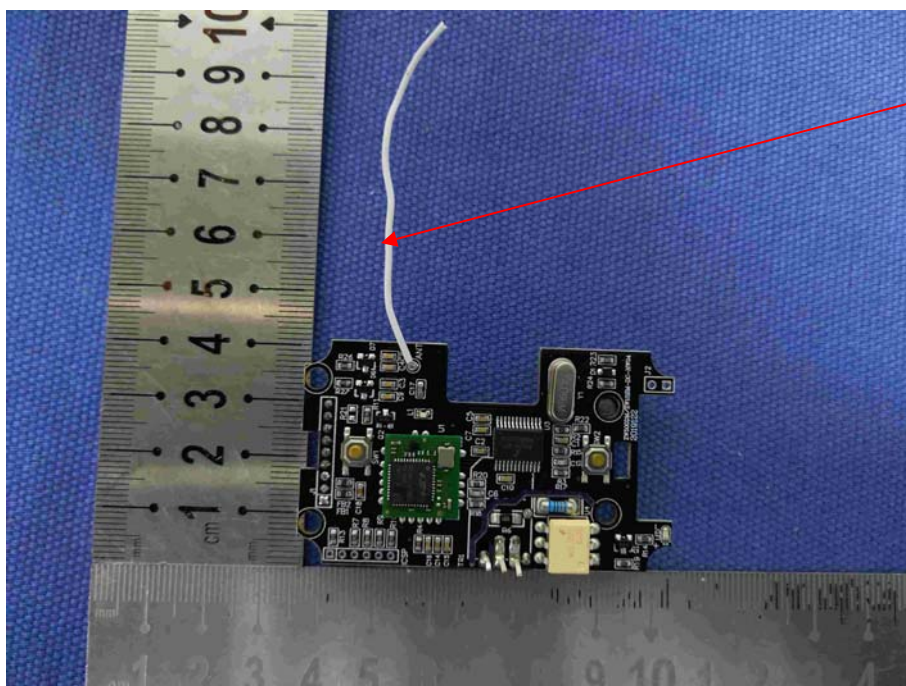
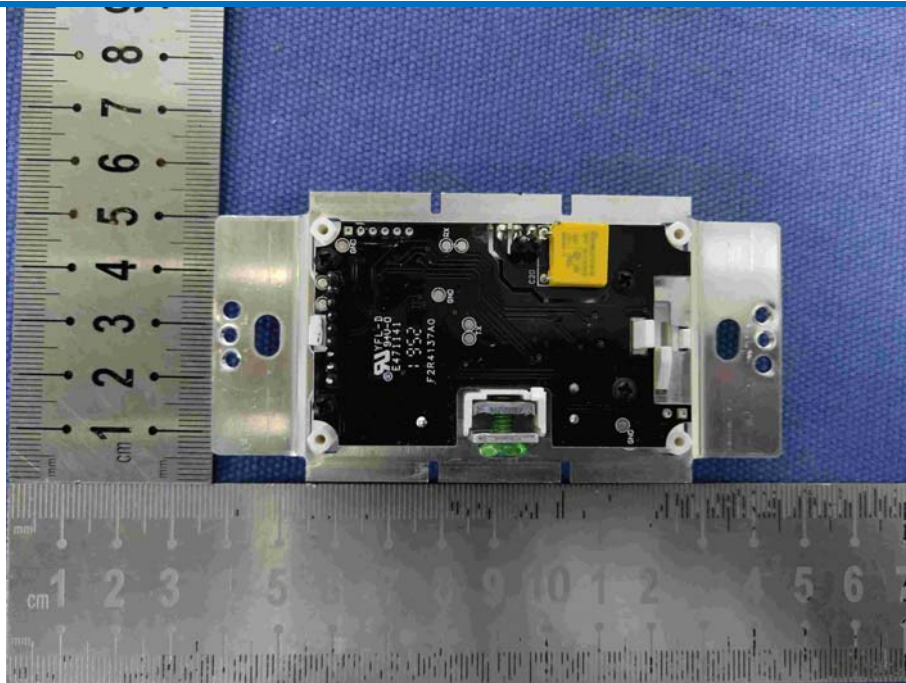




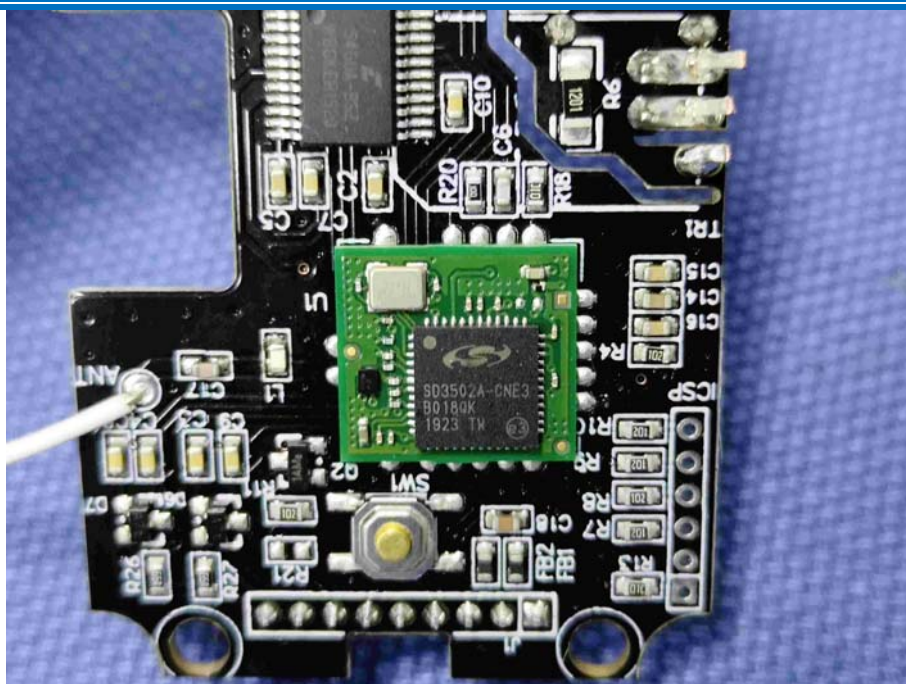








Antenna



The End