

EUT	COOL Smart Tower Fan	Model Name	QKY-COOL
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2462MHZ	Antenna	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4924.024	43.53	7.12	50.65	74.00	-23.35	peak
4924.024	40.06	7.12	47.18	54.00	-6.82	AVG
7386.036	35.25	9.84	45.09	74.00	-28.91	peak
7386.036	31.38	9.84	41.22	54.00	-12.78	AVG

Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT	COOL Smart Tower Fan	Model Name	QKY-COOL
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2462MHZ	Antenna	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4924.024	45.02	7.12	52.14	74.00	-21.86	peak
4924.024	39.79	7.12	46.91	54.00	-7.09	AVG
7386.036	33.44	9.84	43.28	74.00	-30.72	peak
7386.036	29.80	9.84	39.64	54.00	-14.36	AVG

Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

RESULT: PASS

Note:

Other emissions from 1G to 25 GHz are considered as ambient noise. No recording in the test report.

Factor = Antenna Factor + Cable loss - Amplifier gain, Over=Measure-Limit.

The "Factor" value can be calculated automatically by software of measurement system.

All test modes had been pre-tested. The 802.11b mode is the worst case and recorded in the report.



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12. BAND EDGE EMISSION

12.1. MEASUREMENT PROCEDURE

Radiated restricted band edge measurements

The radiated restricted band edge measurements are measured with an EMI test receiver connected to the receive antenna while the EUT is transmitting

12.2. TEST SET-UP

same as 11.2

Note:

1. Factor=Antenna Factor + Cable loss - Amplifier gain. Field Strength=Factor + Reading level
2. The factor had been edited in the "Input Correction" of the Spectrum Analyzer. So the Amplitude of test plots is equal to Reading level plus the Factor in dB. Use the A dB(μ V) to represent the Amplitude. Use the F dB(μ V/m) to represent the Field Strength. So A=F.



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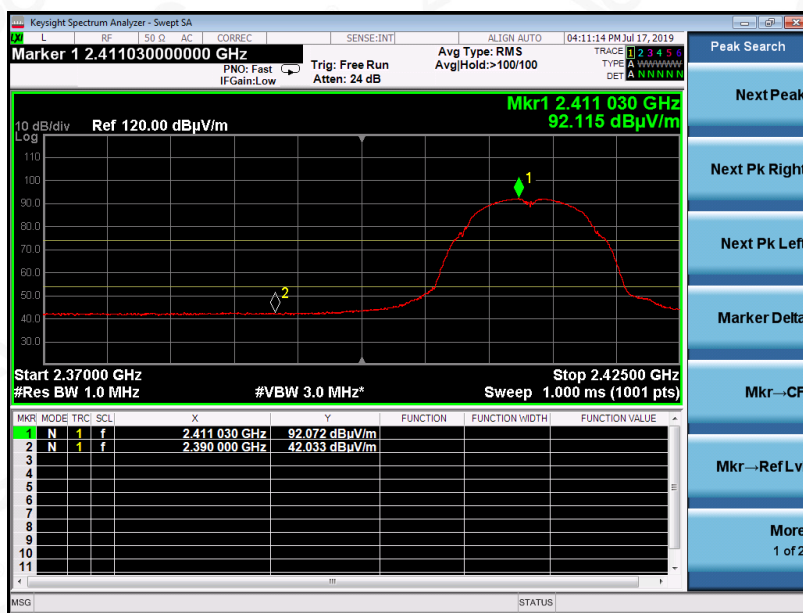
12.3. TEST RESULT

EUT	COOL Smart Tower Fan	Model Name	QKY-COOL
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2412MHZ	Antenna	Horizontal

PK



AV



RESULT: PASS



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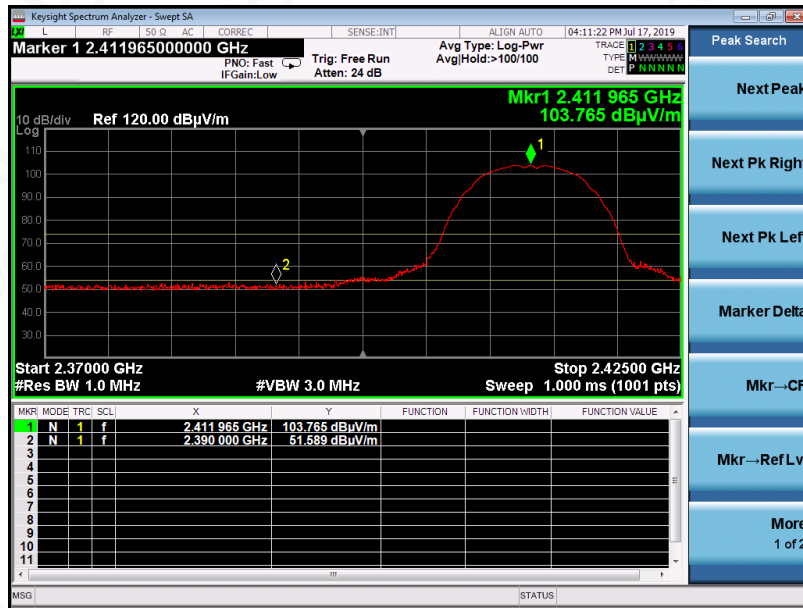
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EUT	COOL Smart Tower Fan	Model Name	QKY-COOL
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2412MHZ	Antenna	Vertical

PK



AV



RESULT: PASS



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EUT	COOL Smart Tower Fan	Model Name	QKY-COOL
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2462MHZ	Antenna	Horizontal

PK



AV



RESULT: PASS



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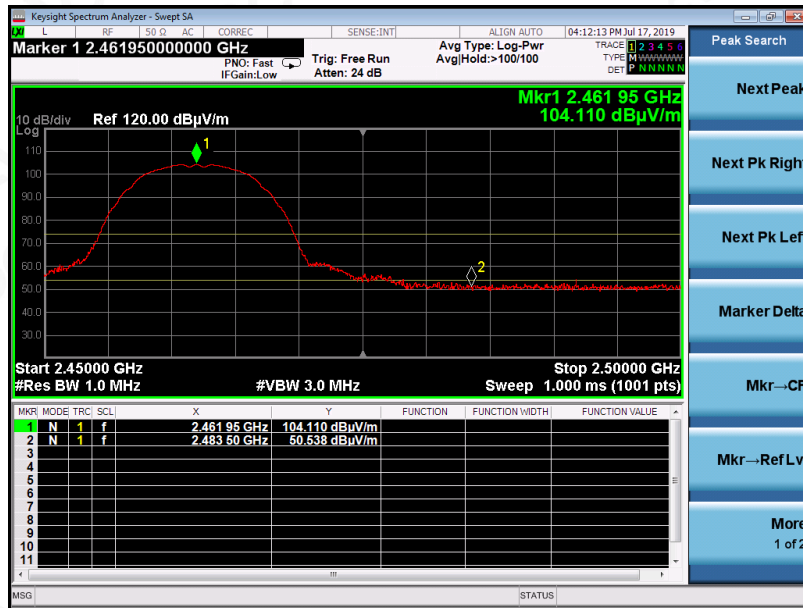
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EUT	COOL Smart Tower Fan	Model Name	QKY-COOL
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2462MHZ	Antenna	Vertical

PK



AV



RESULT: PASS



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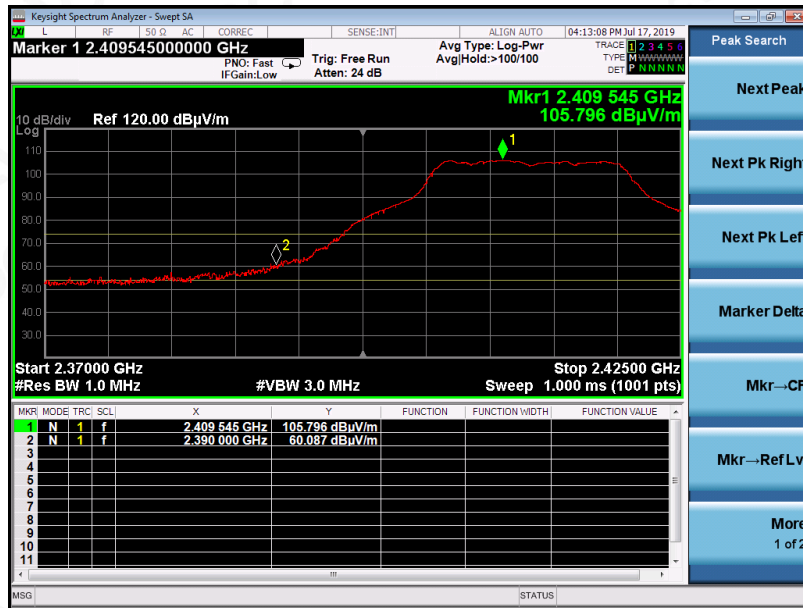
Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

Service Hotline:400 089 2118

EUT	COOL Smart Tower Fan	Model Name	QKY-COOL
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11g with data rate 6 2412MHZ	Antenna	Horizontal

PK



AV



RESULT: PASS



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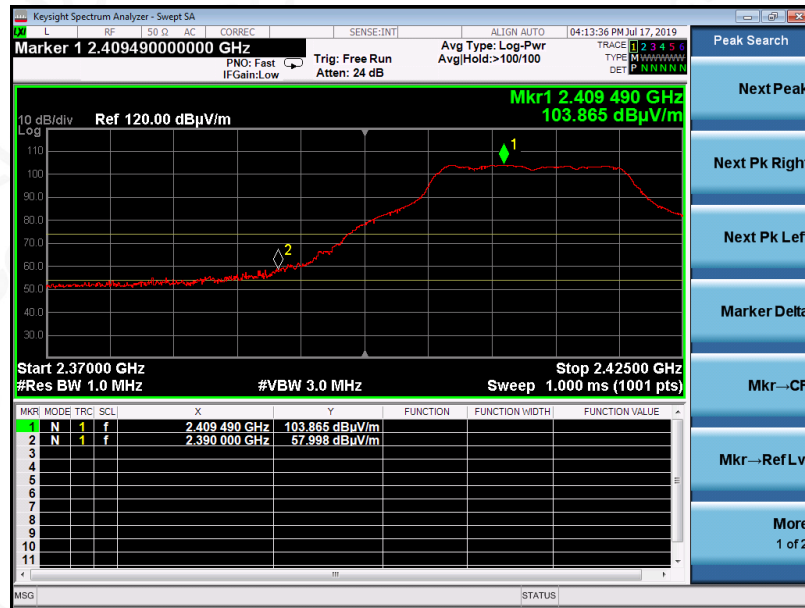
Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

Service Hotline:400 089 2118

EUT	COOL Smart Tower Fan	Model Name	QKY-COOL
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11g with data rate 6 2412MHZ	Antenna	Vertical

PK



AV



RESULT: PASS



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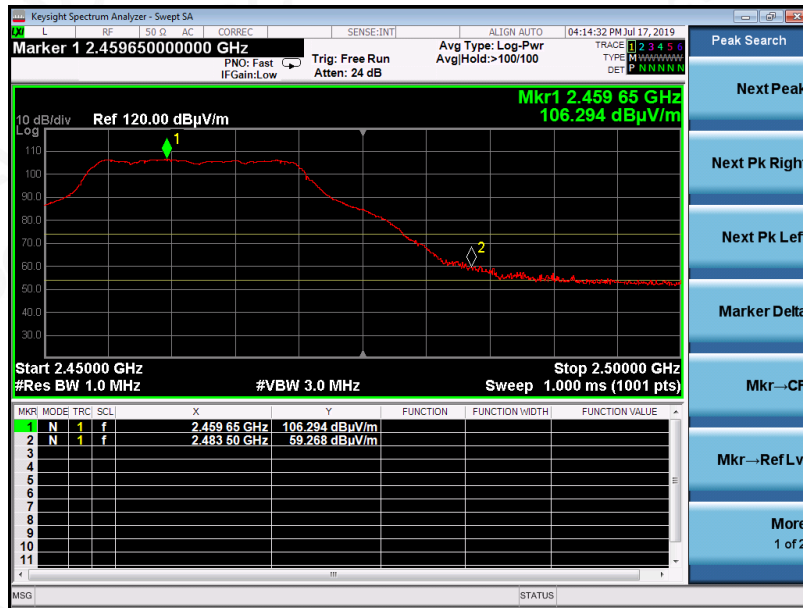
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EUT	COOL Smart Tower Fan	Model Name	QKY-COOL
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11g with data rate 6 2462MHZ	Antenna	Horizontal

PK



AV



RESULT: PASS



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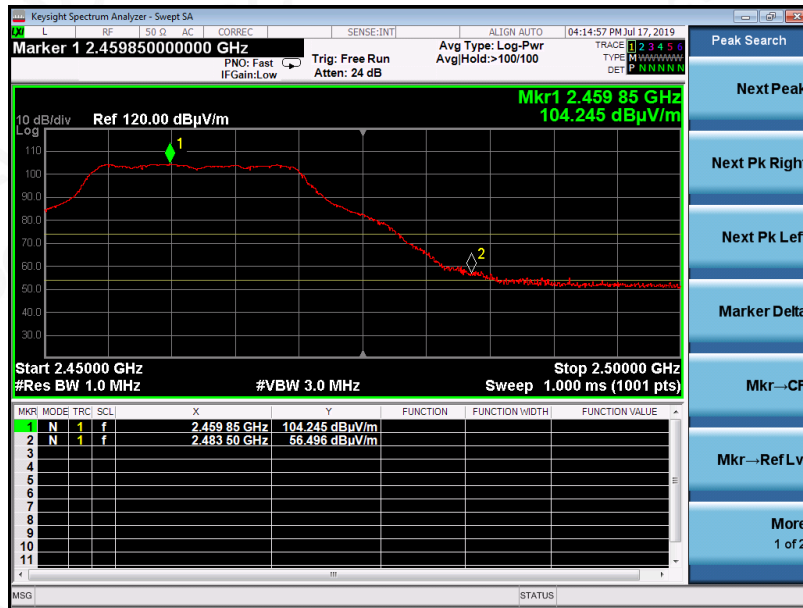
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Service Hotline:400 089 2118

EUT	COOL Smart Tower Fan	Model Name	QKY-COOL
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11g with data rate 6 2462MHZ	Antenna	Vertical

PK



AV



RESULT: PASS



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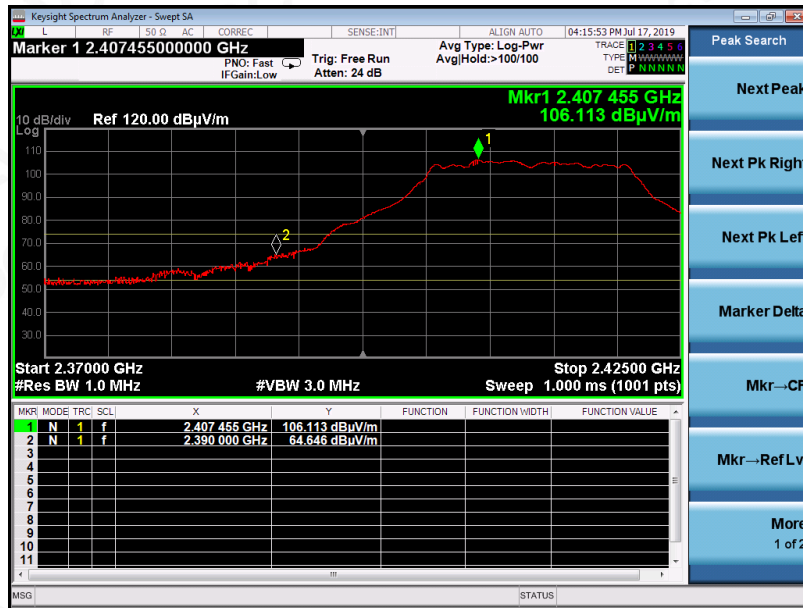
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Service Hotline:400 089 2118

EUT	COOL Smart Tower Fan	Model Name	QKY-COOL
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n 20 with data rate 6.5 2412MHZ	Antenna	Horizontal

PK



AV



RESULT: PASS



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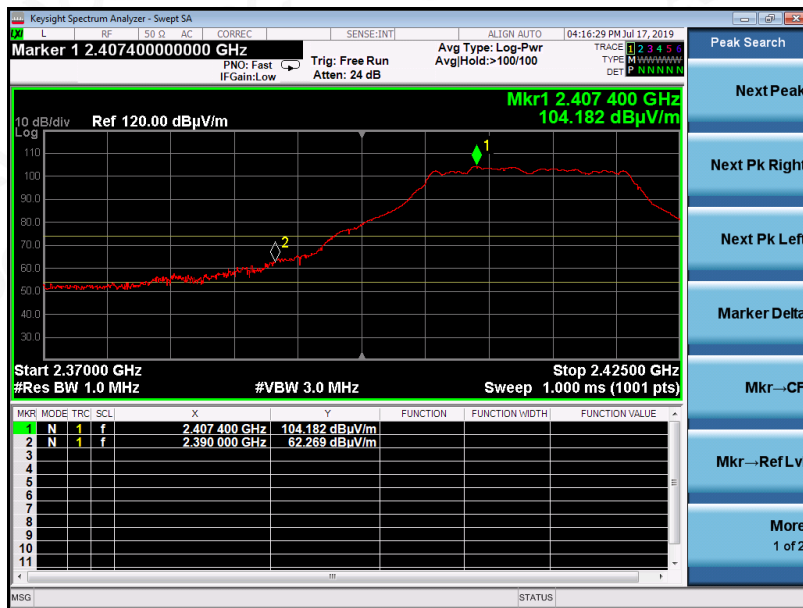
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EUT	COOL Smart Tower Fan	Model Name	QKY-COOL
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n 20 with data rate 6.5 2412MHZ	Antenna	Vertical

PK



AV



RESULT: PASS



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EUT	COOL Smart Tower Fan	Model Name	QKY-COOL
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n 20 with data rate 6.5 2462MHZ	Antenna	Horizontal

PK



AV



RESULT: PASS



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EUT	COOL Smart Tower Fan	Model Name	QKY-COOL
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n 20 with data rate 6.5 2462MHZ	Antenna	Vertical

PK



AV



RESULT: PASS



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13. FCC LINE CONDUCTED EMISSION TEST

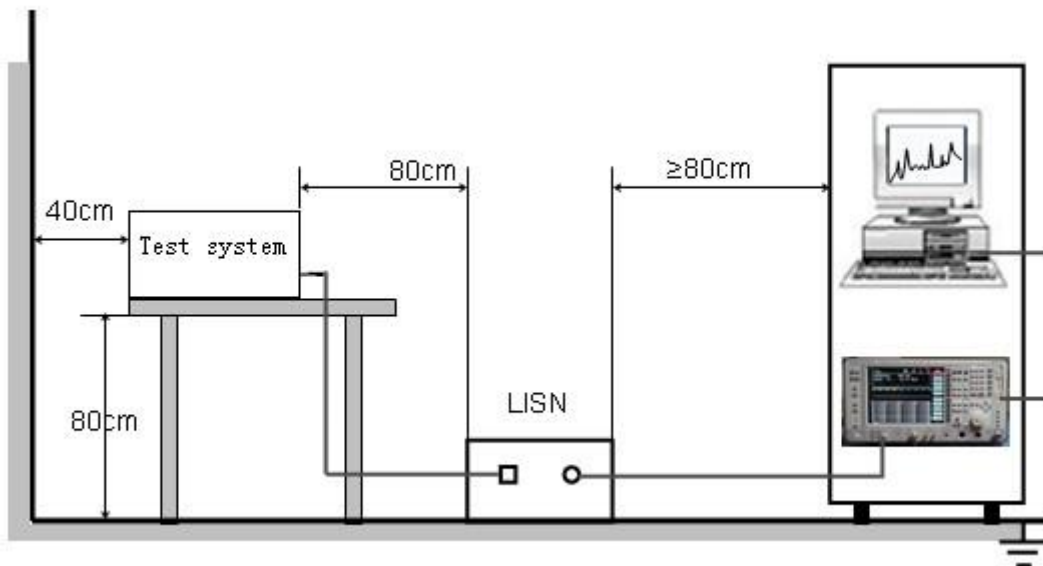
13.1. LIMITS OF LINE CONDUCTED EMISSION TEST

Frequency	Maximum RF Line Voltage	
	Q.P.(dBuV)	Average(dBuV)
150kHz-500kHz	66-56	56-46
500kHz-5MHz	56	46
5MHz-30MHz	60	50

Note:

1. The lower limit shall apply at the transition frequency.
2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50MHz.

13.2. BLOCK DIAGRAM OF TEST SETUP



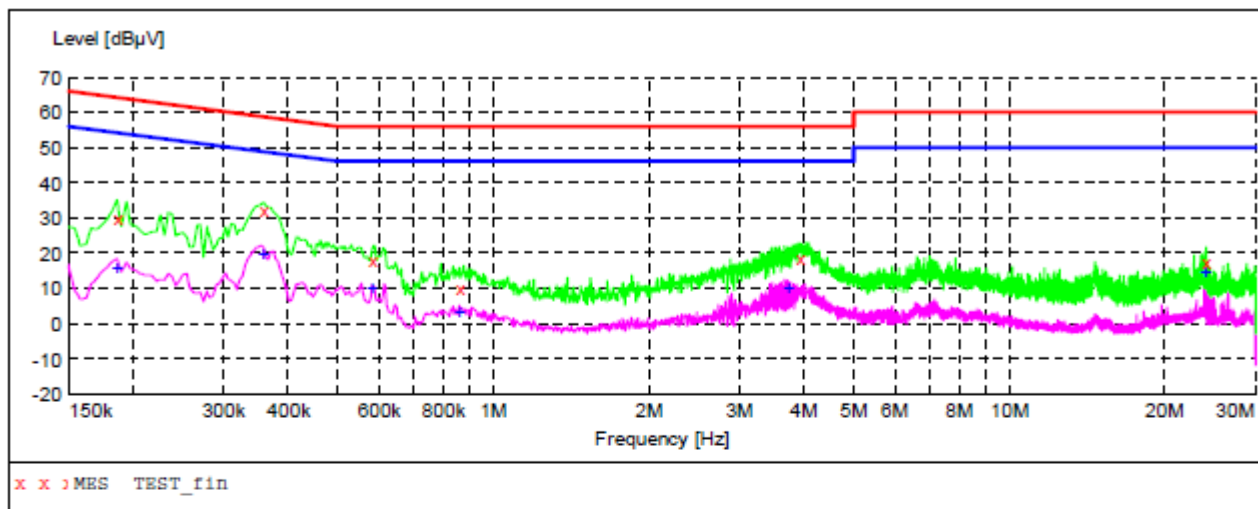
13.3. PROCEDURE OF LINE CONDUCTED EMISSION TEST

- (1) The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- (2) Support equipment, if needed, was placed as per ANSI C63.10.
- (3) All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
- (4) The EUT received DC 5V power from adapter which received AC120V/60Hz power by a LISN.
- (5) The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- (6) Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
- (7) During the above scans, the emissions were maximized by cable manipulation.
- (8) A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions.
- (9) Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less -2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.



13.4. TEST RESULT OF LINE CONDUCTED EMISSION TEST

LINE CONDUCTED EMISSION TEST-L1



MEASUREMENT RESULT: "TEST_fin"

7/24/2019 10:04AM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.186000	30.20	10.9	64	34.0	QP	L1	FLO
0.358000	32.40	10.5	59	26.4	QP	L1	FLO
0.582000	17.80	10.8	56	38.2	QP	L1	FLO
0.858000	10.50	11.0	56	45.5	QP	L1	FLO
3.938000	18.70	11.6	56	37.3	QP	L1	FLO
24.054000	17.30	12.7	60	42.7	QP	L1	FLO

MEASUREMENT RESULT: "TEST_fin2"

7/24/2019 10:04AM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.186000	16.00	10.9	54	38.2	AV	L1	FLO
0.358000	19.90	10.5	49	28.9	AV	L1	FLO
0.582000	10.30	10.8	46	35.7	AV	L1	FLO
0.858000	3.40	11.0	46	42.6	AV	L1	FLO
3.722000	10.00	11.6	46	36.0	AV	L1	FLO
24.054000	14.80	12.7	50	35.2	AV	L1	FLO

RESULT: PASS



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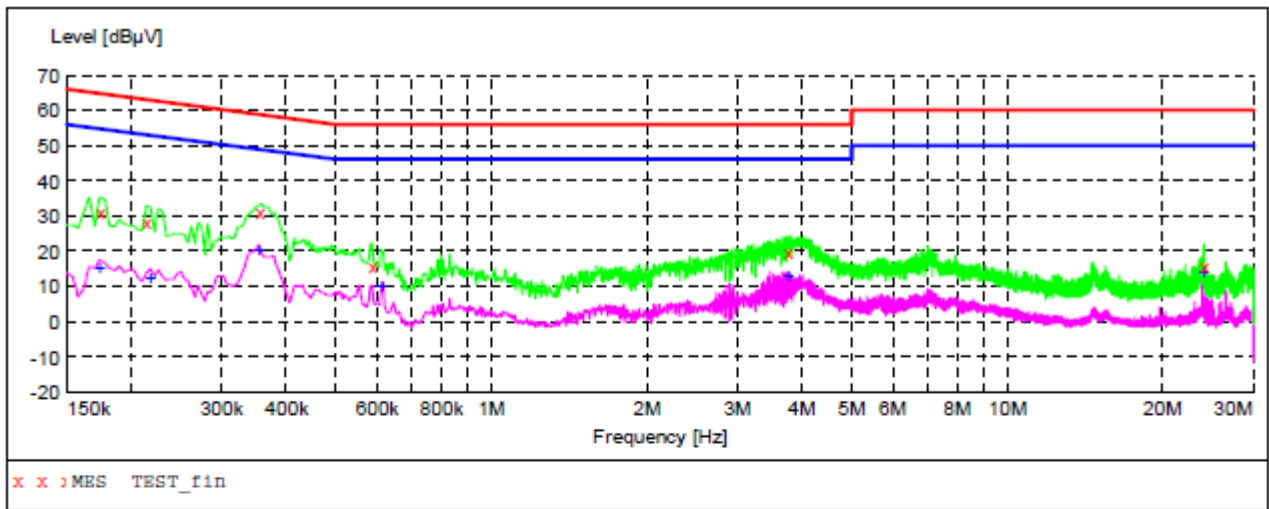
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LINE CONDUCTED EMISSION TEST-N



MEASUREMENT RESULT: "TEST_fin"

7/24/2019 10:12AM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.174000	31.00	10.9	65	33.8	QP	N	FLO
0.214000	28.50	10.9	63	34.5	QP	N	FLO
0.354000	31.20	10.6	59	27.7	QP	N	FLO
0.586000	16.10	10.8	56	39.9	QP	N	FLO
3.766000	19.90	11.6	56	36.1	QP	N	FLO
24.054000	15.90	12.7	60	44.1	QP	N	FLO

MEASUREMENT RESULT: "TEST_fin2"

7/24/2019 10:12AM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.174000	15.40	10.9	55	39.4	AV	N	FLO
0.218000	12.40	10.9	53	40.5	AV	N	FLO
0.354000	20.50	10.6	49	28.4	AV	N	FLO
0.614000	10.50	10.7	46	35.5	AV	N	FLO
3.766000	13.10	11.6	46	32.9	AV	N	FLO
24.042000	14.20	12.7	50	35.8	AV	N	FLO



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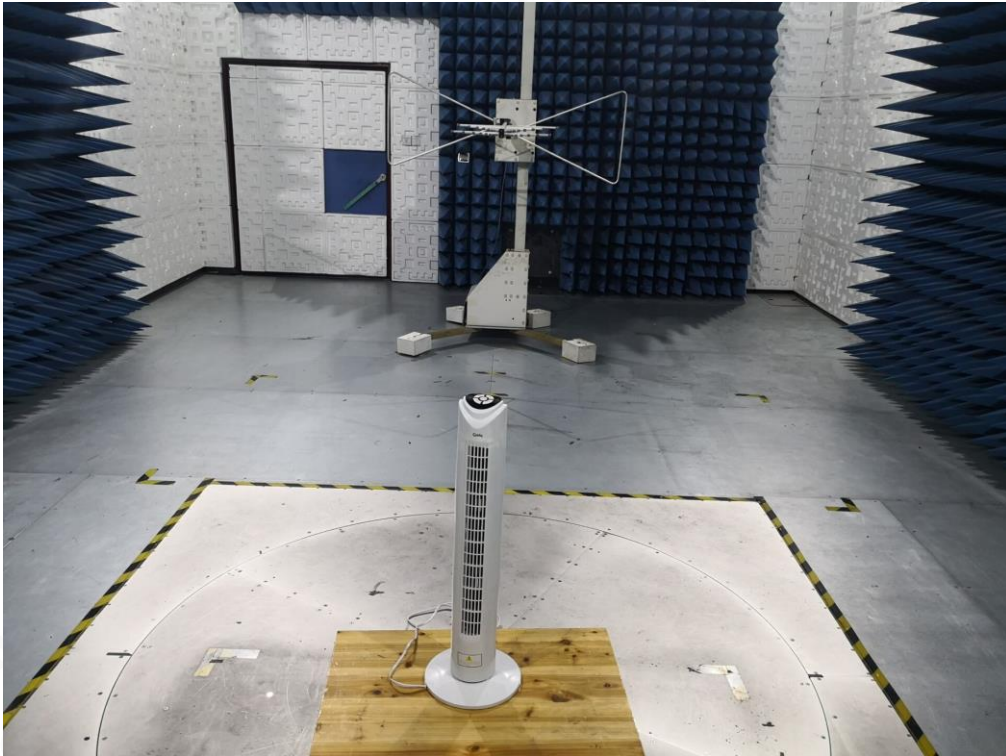
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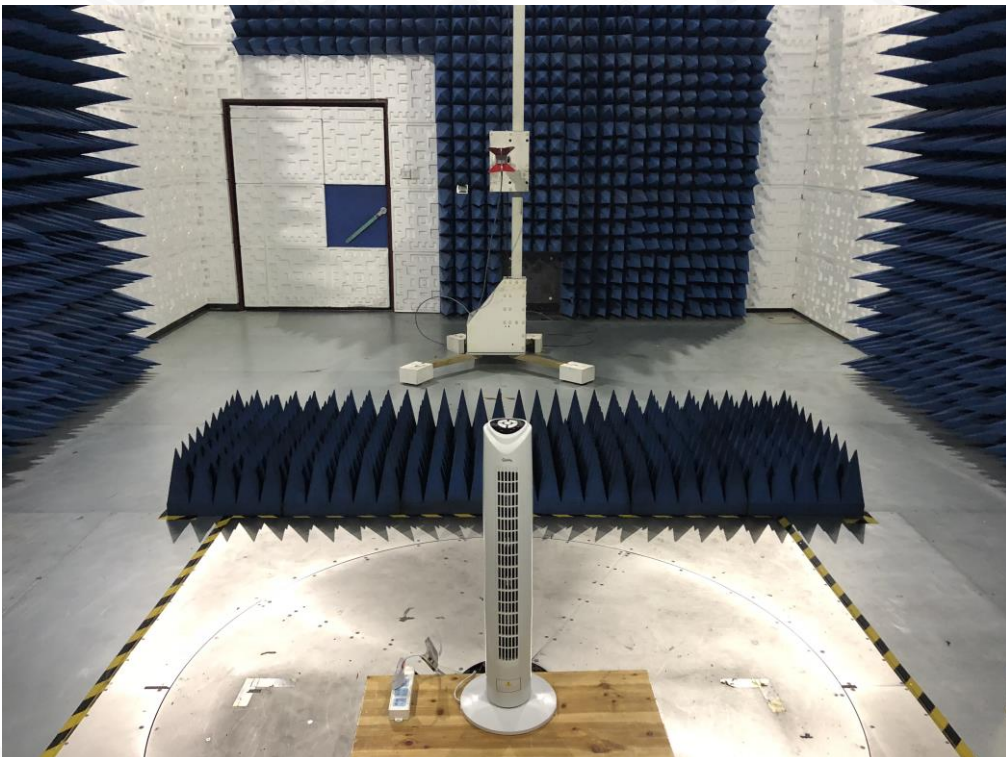
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APPENDIX A: PHOTOGRAPHS OF TEST SETUP
FCC RADIATED EMISSION TEST SETUP BELOW 1GHZ



FCC RADIATED EMISSION TEST SETUP ABOVE 1GHZ



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FCC CONDUCTED EMISSION TEST SETUP



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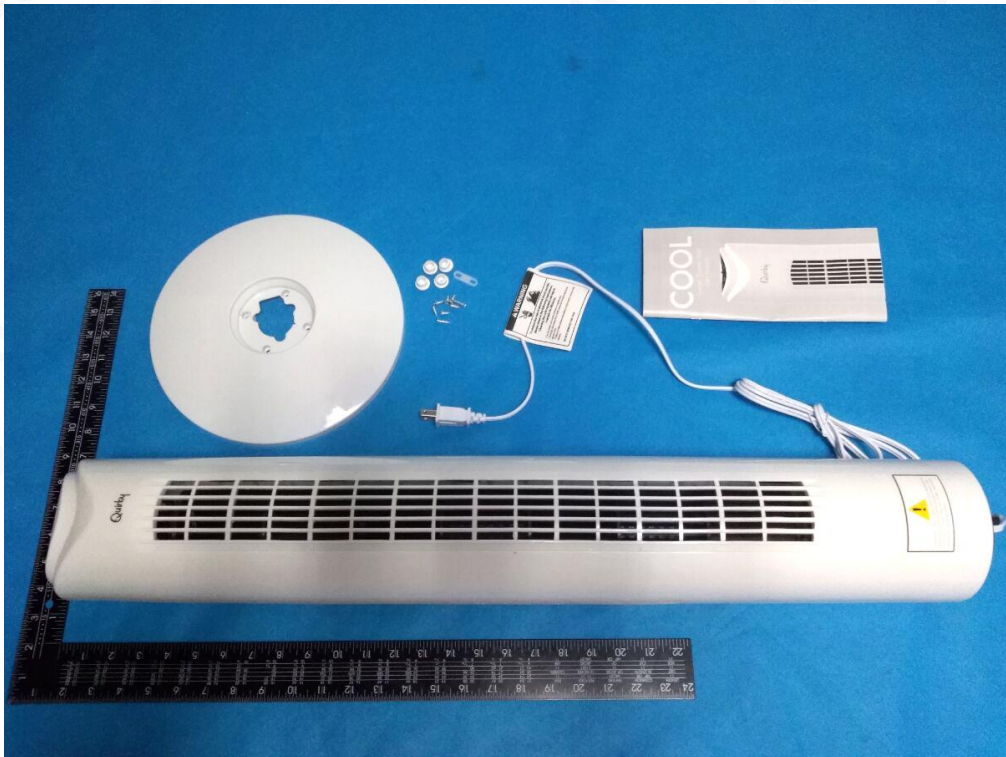
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APPENDIX B: PHOTOGRAPHS OF EUT

ALL VIEW OF EUT



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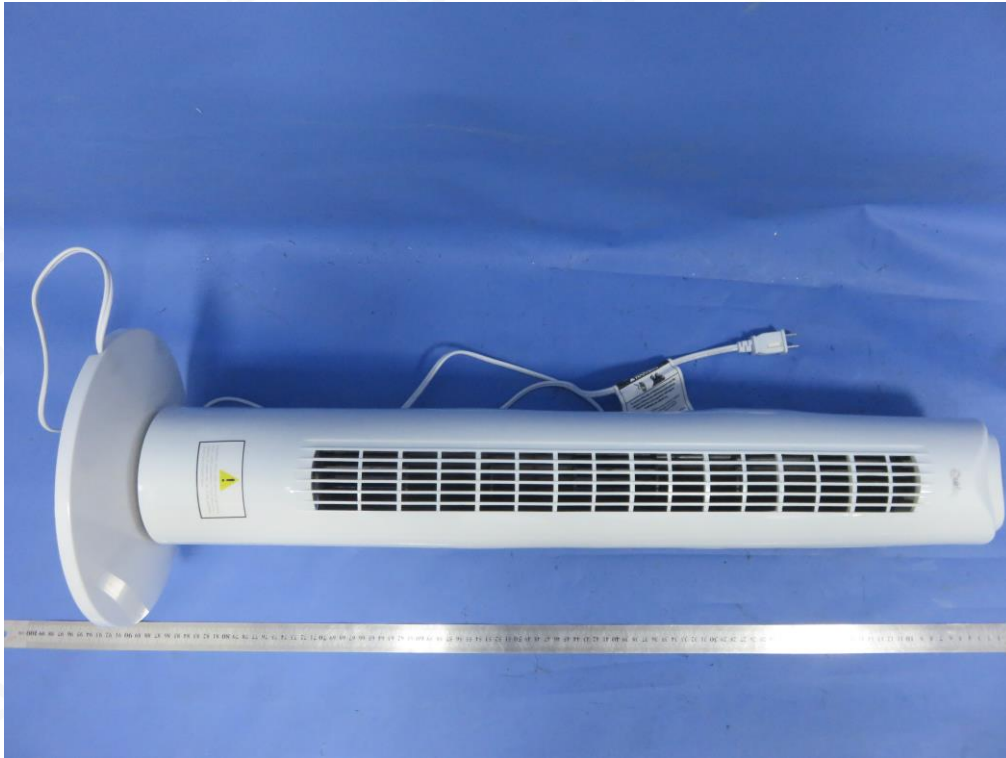
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TOP VIEW OF EUT



BOTTOM VIEW OF EUT



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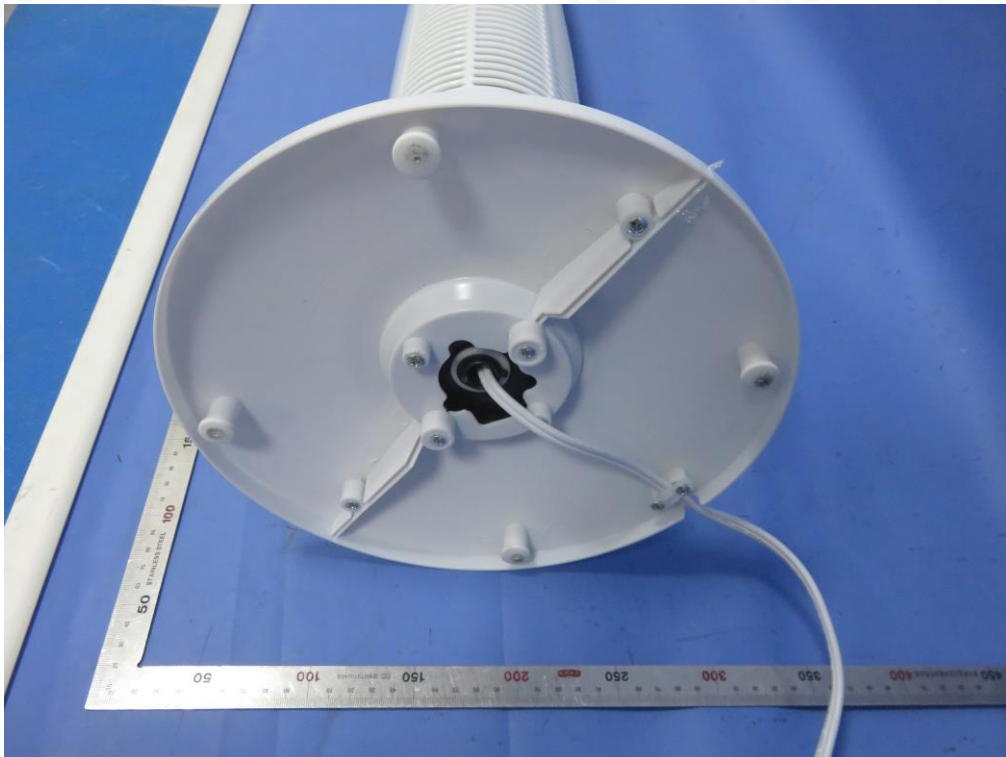
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FRONT VIEW OF EUT



BACK VIEW OF EUT



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E-mail: agc@agc-cert.com

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LEFT VIEW OF EUT



RIGHT VIEW OF EUT



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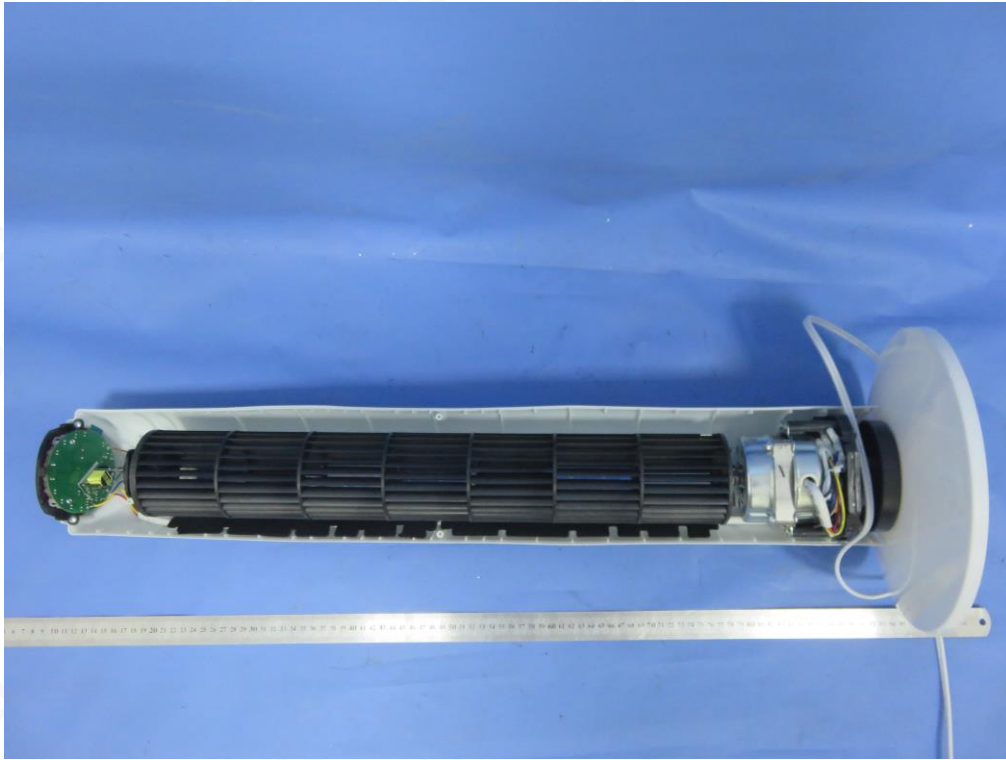
Add: 2/F., Building 2, No.1-4, Chaxi Sanwei Technial Industrial Park, Gushu,
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Tel: +86-755 2523 4088

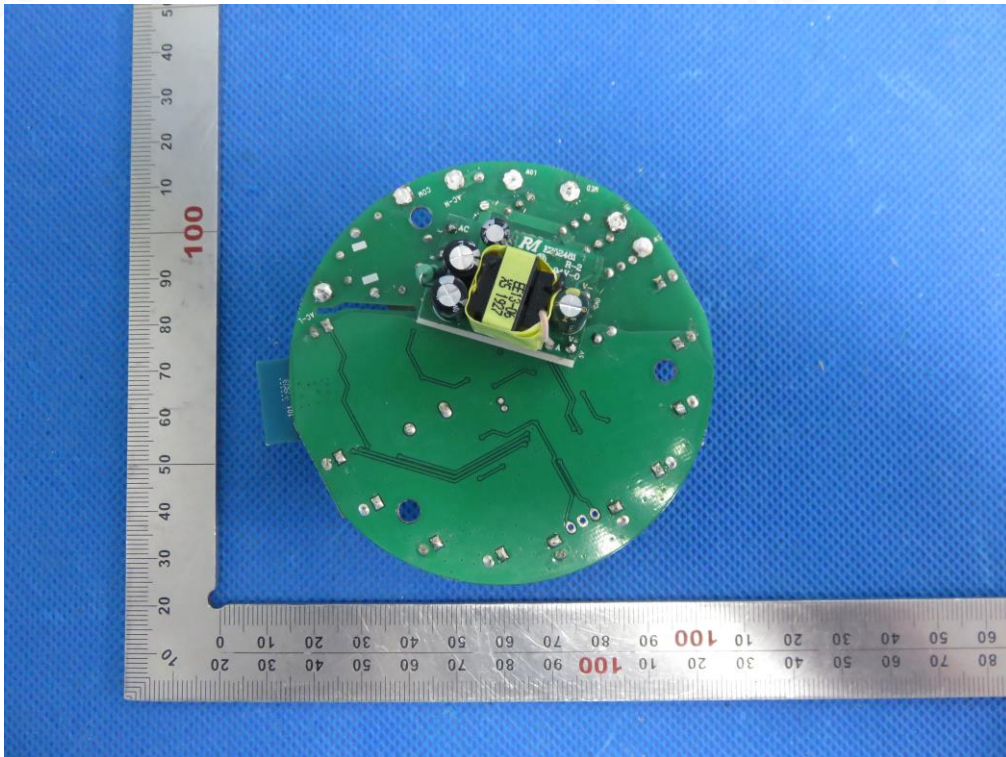
E-mail: agc@agc-cert.com

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OPEN VIEW OF EUT



INTERNAL VIEW OF EUT-1



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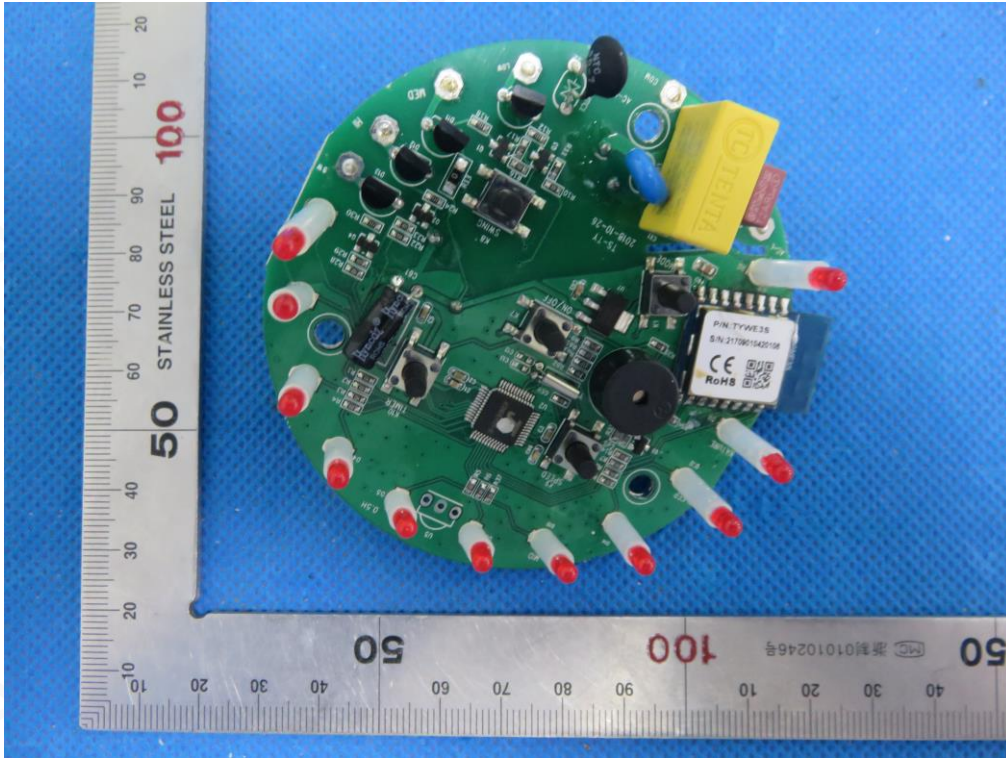
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Tel: +86-755 2523 4088

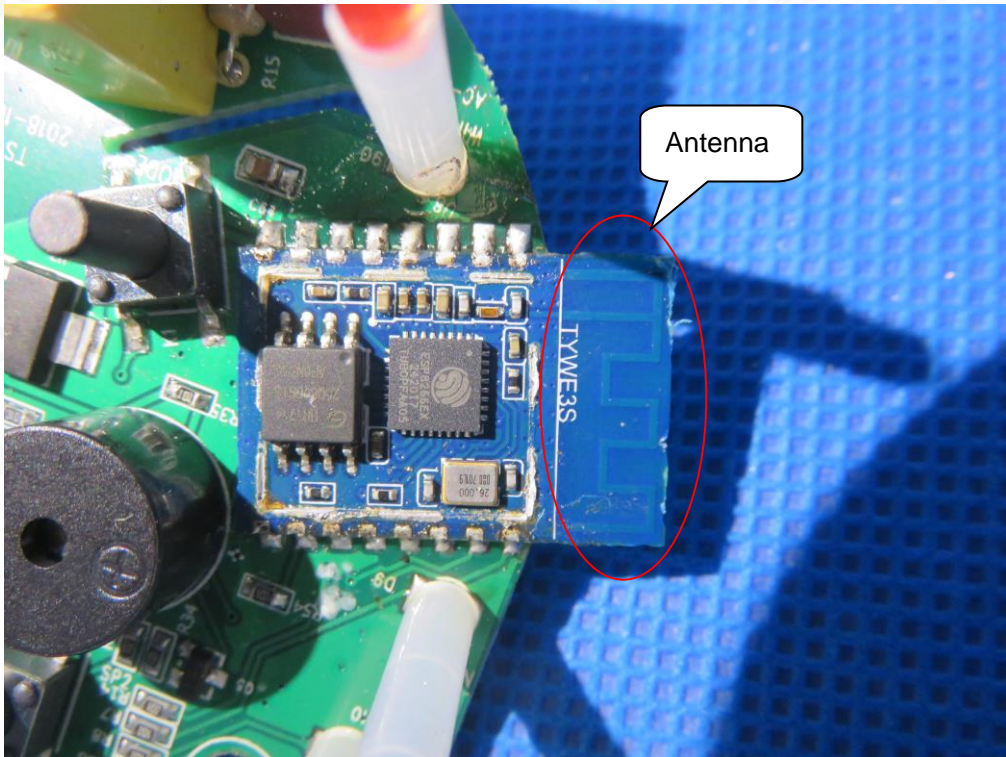
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INTERNAL VIEW OF EUT-2



INTERNAL VIEW OF EUT-3



----END OF REPORT----