

FCC Test Report

Report No.: AGC00008190404FE01

FCC ID : TW5GD8005
PRODUCT DESIGNATION : Four-Channel Wireless Digital Surverillance System
BRAND NAME : N/A
MODEL NAME : GD8005
CLIENT : Shenzhen Gspell Smarthome Electronic Co., Ltd.
DATE OF ISSUE : May 09, 2019
STANDARD(S) : FCC Part 15 Subpart B
REPORT VERSION : V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd

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REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	May 09, 2019	Valid	Initial release

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1. VERIFICATION OF CONFORMITY

Applicant	Shenzhen Gospell Smarhome Electronic Co., Ltd.
Address	East of 01st-04st Floor, Block A, No.1 Industrial park, Fenghuanggang, South of No.1 Baotian Road, Xixiang street, Bao'an District, Shenzhen City, Guangdong Province 518126, P.R.China
Manufacturer	Shenzhen Gospell Smarhome Electronic Co., Ltd.
Address	East of 01st-04st Floor, Block A, No.1 Industrial park, Fenghuanggang, South of No.1 Baotian Road, Xixiang street, Bao'an District, Shenzhen City, Guangdong Province 518126, P.R.China
Factory	Shenzhen Gospell Smarhome Electronic Co., Ltd.
Address	East of 01st-04st Floor, Block A, No.1 Industrial park, Fenghuanggang, South of No.1 Baotian Road, Xixiang street, Bao'an District, Shenzhen City, Guangdong Province 518126, P.R.China
Product Designation	Four-Channel Wireless Digital Surveillance System
Brand Name	N/A
Test Model	GD8005
Measurement Procedure	ANSI C63.4: 2014
Date of test	Apr. 30, 2019 to May 09, 2019
Deviation	None
Condition of Test Sample	Normal
Test Result	Pass
Report Template	AGCRT-US-IT/AC

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. For compliance with the requirements set forth in the FCC Rules and Regulations Part 15, the measurement procedure according to ANSI C63.4:2014. This said equipment in the configuration described in this report shows the maximum emission levels emanating from equipment are within the compliance requirements.

The test results of this report relate only to the tested sample identified in this report.

Tested By



Draven Li(Li Ming Liang)

May 09, 2019

Reviewed By



Max Zhang(Zhang Yi)

May 09, 2019

Approved By



Forrest Lei(Lei Yonggang)

Authorized Officer

May 09, 2019

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2. SYSTEM DESCRIPTION

TEST MODE DESCRIPTION		
NO.	TEST MODE DESCRIPTION	WORST
1	Data Communication by LAN port	V

Note:1. V means EMI worst mode.

3. MEASUREMENT UNCERTAINTY

The uncertainty is calculated using the methods suggested in the "Guide to the Expression of Uncertainty in measurement" (GUM) published by CISPR and ANSI.

- Uncertainty of Conducted Emission, $U_c = \pm 3.2$ dB
- Uncertainty of Radiated Emission below 1GHz, $U_c = \pm 3.9$ dB
- Uncertainty of Radiated Emission above 1GHz, $U_c = \pm 4.8$ dB

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4. PRODUCT INFORMATION

Housing Type	Plastic and metal
Hardware Version	V103P2
Software Version	V1.0
Antenna Gain	3.0dBi
Power Supply	DC 12V by adapter

Adapter

Model name	KT12W120100US
Input Rating	AC100-240V, 50-60HZ, 0.4A
Output Rating	DC12V, 1A

I/O Port Information (Applicable Not Applicable)

I/O Port of EUT			
I/O Port Type	Number	Specific	Tested With
DC In	1	N/A	1
LAN	1	N/A	1

Note:

1. All the above "--" means that EUT has no cable.
2. All the cables were provided by AGC Lab.

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5. SUPPORT EQUIPMENT

Item	Equipment	Model No.	ID or Specification	Remark
1	--	--	--	--

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6. TEST FACILITY

Test Site	Attestation of Global Compliance (Shenzhen) Co., Ltd
Location	1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

TEST EQUIPMENT OF CONDUCTED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESPI	101206	Jun.12, 2018	Jun.11, 2019
LISN	R&S	ESH2-Z5	100086	Jun.12, 2018	Jun.11, 2019

TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	Jun.12, 2018	Jun.11, 2019
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec.07, 2018	Dec.08, 2019
Horn antenna	SCHWARZBECK	BBHA 9170	#768	May.18, 2018	May.17, 2019
preamplifier	ChengYi	EMC184045SE	980508	May.18, 2018	May.17, 2019
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	May.18, 2018	May.17, 2019
Broadband Preamplifier	SCHWARZBECK	BBV 9718	9718-205	Jun.12, 2018	Jun.11, 2019
ANTENNA	SCHWARZBECK	VULB9168	D69250	May.18, 2018	May.17, 2019

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7. TEST ITEMS AND THE RESULTS

Test item	Test Requirement	Test Method	Class/Severity	Result
CONDUCTED EMISSION	FCC Part 15 Rules	ANSI C63.4	Class B	Pass
RADIATED EMISSION	FCC Part 15 Rules	ANSI C63.4	Class B	Pass

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8. LINE CONDUCTED EMISSION TEST

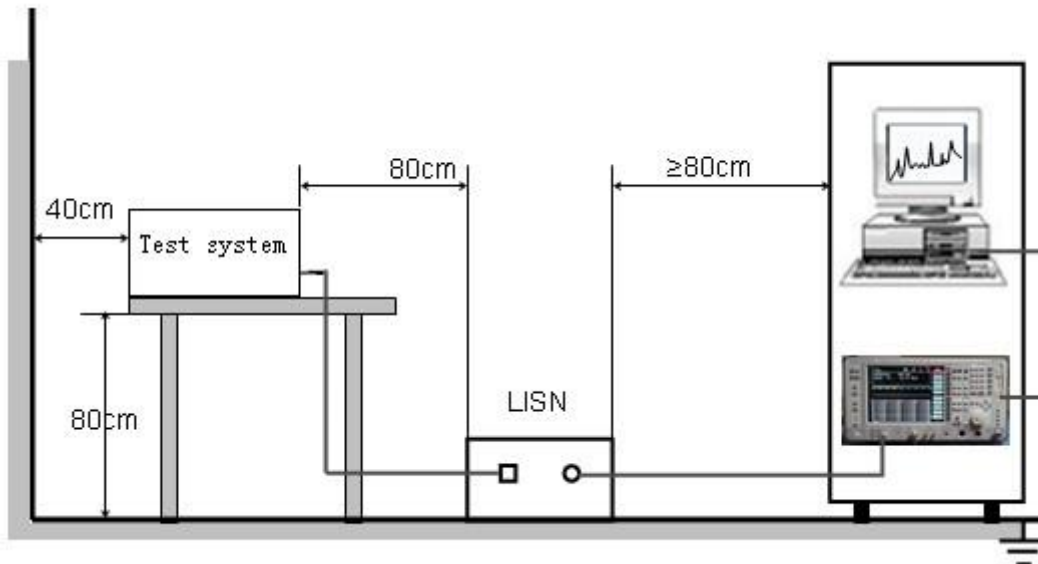
8.1. LIMITS OF LINE CONDUCTED EMISSION TEST

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.

8.2. BLOCK DIAGRAM OF TEST SETUP



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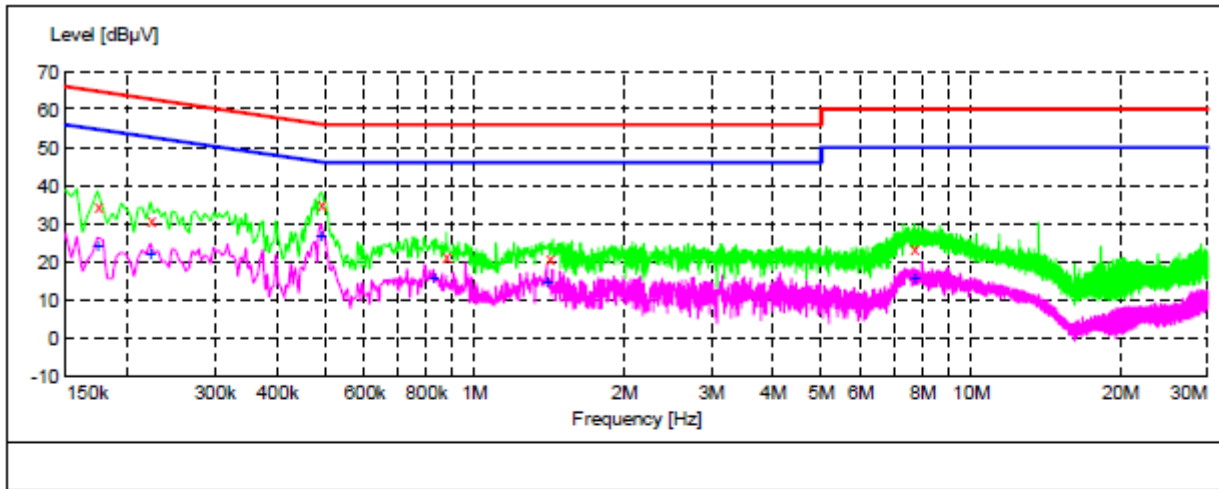
8.3. PROCEDURE OF LINE CONDUCTED EMISSION TEST

- (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 C63.4 (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 C63.4.
- (3) All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.
- (4) The EUT received DC 12V power from adapter which received AC120V/60Hz power from 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.

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8.4. TEST RESULT OF LINE CONDUCTED EMISSION TEST

Line Conducted Emission Test Line 1-L



MEASUREMENT RESULT: "TEST_fin"

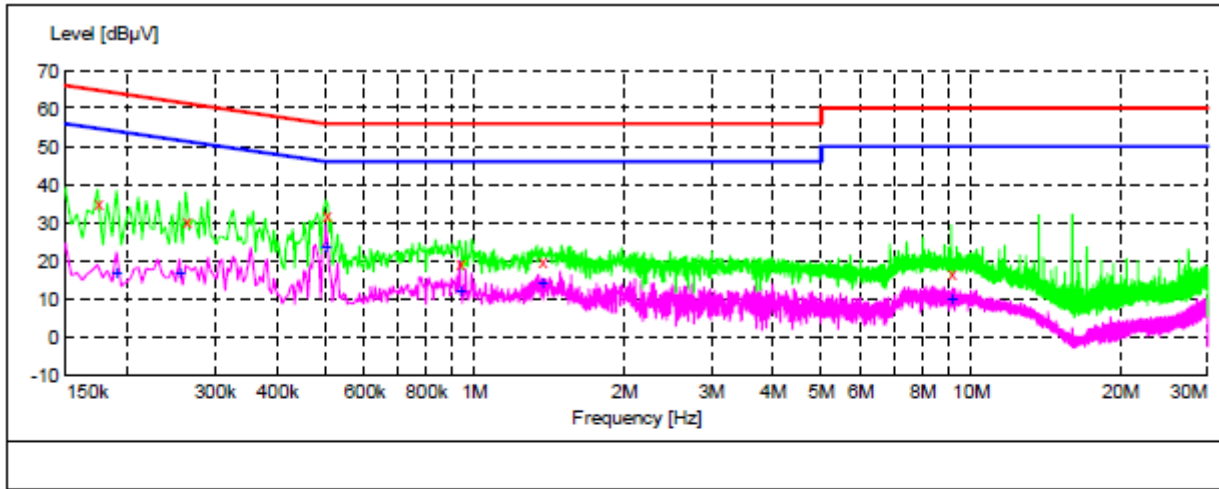
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.174000	34.40	10.3	65	30.4	QP	L1	FLO
0.222000	30.90	10.3	63	31.8	QP	L1	FLO
0.490000	35.20	10.3	56	21.0	QP	L1	FLO
0.878000	21.60	10.4	56	34.4	QP	L1	FLO
1.414000	21.00	10.4	56	35.0	QP	L1	FLO
7.678000	23.40	10.6	60	36.6	QP	L1	FLO

MEASUREMENT RESULT: "TEST_fin2"

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.174000	24.30	10.3	55	30.5	AV	L1	FLO
0.222000	22.30	10.3	53	30.4	AV	L1	FLO
0.490000	26.80	10.3	46	19.4	AV	L1	FLO
0.826000	15.60	10.4	46	30.4	AV	L1	FLO
1.398000	14.50	10.4	46	31.5	AV	L1	FLO
7.686000	15.80	10.6	50	34.2	AV	L1	FLO

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Line Conducted Emission Test Line 2-N



MEASUREMENT RESULT: "TEST_fin"

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.174000	35.40	10.3	65	29.4	QP	N	FLO
0.262000	30.50	10.2	61	30.9	QP	N	FLO
0.502000	32.00	10.3	56	24.0	QP	N	FLO
0.934000	19.60	10.4	56	36.4	QP	N	FLO
1.370000	19.70	10.4	56	36.3	QP	N	FLO
9.138000	16.80	10.7	60	43.2	QP	N	FLO

MEASUREMENT RESULT: "TEST_fin2"

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.190000	16.70	10.3	54	37.3	AV	N	FLO
0.254000	16.50	10.2	52	35.1	AV	N	FLO
0.502000	23.60	10.3	46	22.4	AV	N	FLO
0.934000	12.30	10.4	46	33.7	AV	N	FLO
1.370000	14.10	10.4	46	31.9	AV	N	FLO
9.138000	9.90	10.7	50	40.1	AV	N	FLO

RESULT: PASS

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9. RADIATED EMISSION TEST

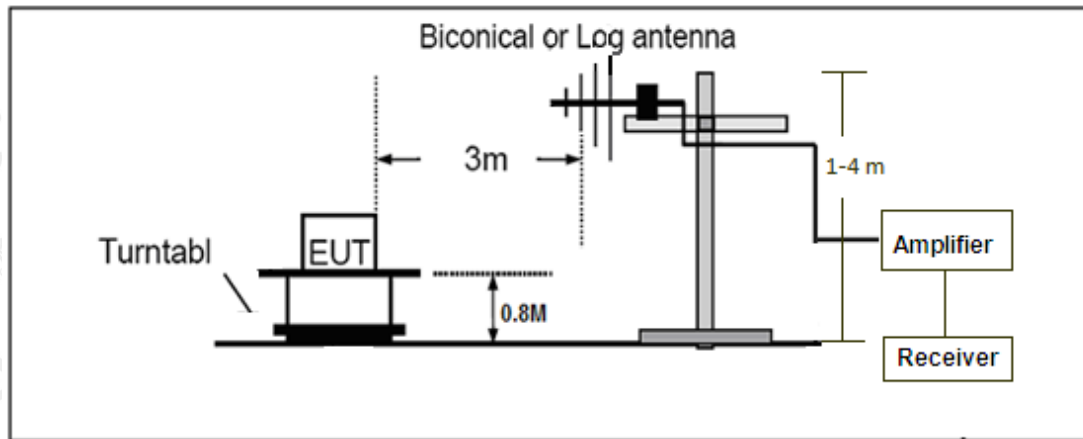
9.1. LIMITS OF RADIATED EMISSION TEST

Frequency (MHz)	Distance (m)	Maximum Field Strength Limit (dBuV/m/ Q.P.)
30~88	3	40.0
88~216	3	43.5
216~960	3	46.0
Above 960	3	54.0

Note: The lower limit shall apply at the transition frequency.

9.2. BLOCK DIAGRAM OF TEST SETUP

System Diagram of Connections between EUT and Simulators



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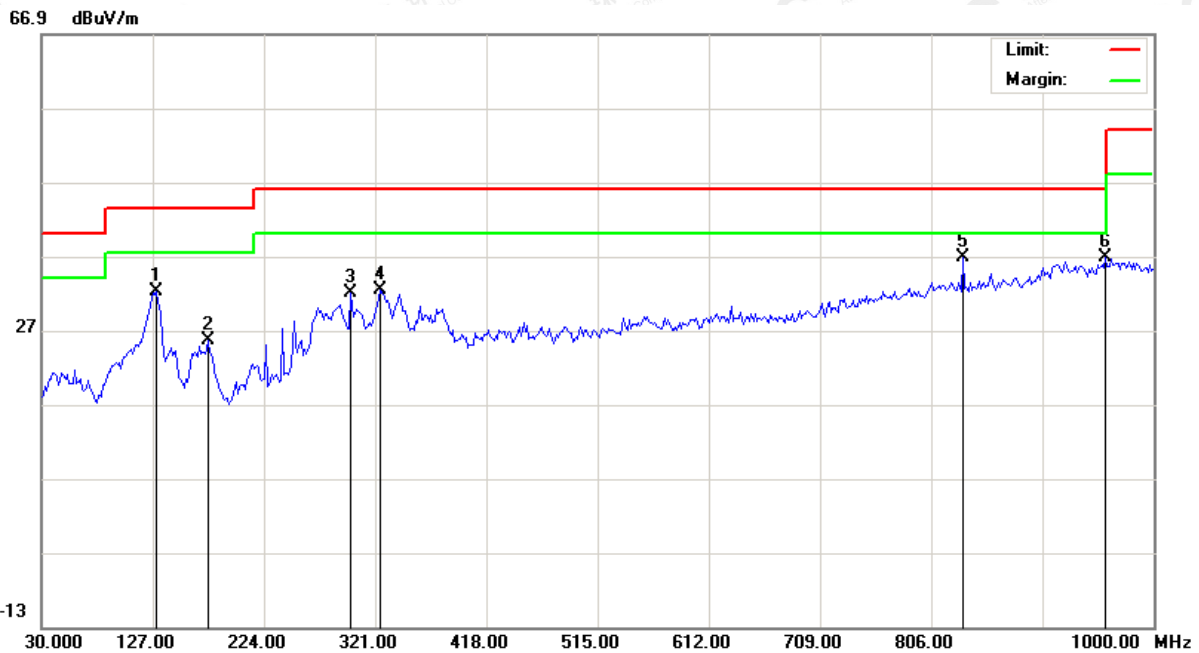
9.3. PROCEDURE OF RADIATED EMISSION TEST

- (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 turntable with a height of 0.8 meters is used which is placed on the ground plane as per ANSI C63.4 (see Test Facility for the dimensions of the ground plane used). When the EUT is 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 C63.4.
- (3) All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.
- (4) All support equipments received AC120V/60Hz power from socket under the turntable, if any.
- (5) The antenna was placed at 3 meter away from the EUT as stated in FCC Part 15. The antenna connected to the Analyzer via a cable and at times a pre-amplifier would be used.
- (6) The Analyzer / Receiver quickly scanned from 30MHz to 1000MHz. The EUT test program was started. Emissions were scanned and measured rotating the EUT to 360 degrees and positioning the antenna 1 to 4 meters above the ground plane, in both the vertical and the horizontal polarization, to maximize the emission reading level.
- (7) The test mode(s) were scanned during the test:
- (8) Recorded at least the six highest emissions. Emission frequency, amplitude, antenna position, polarization and turntable position were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit and Q.P./Peak reading is presented.

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9.4. TEST RESULT OF RADIATED EMISSION TEST

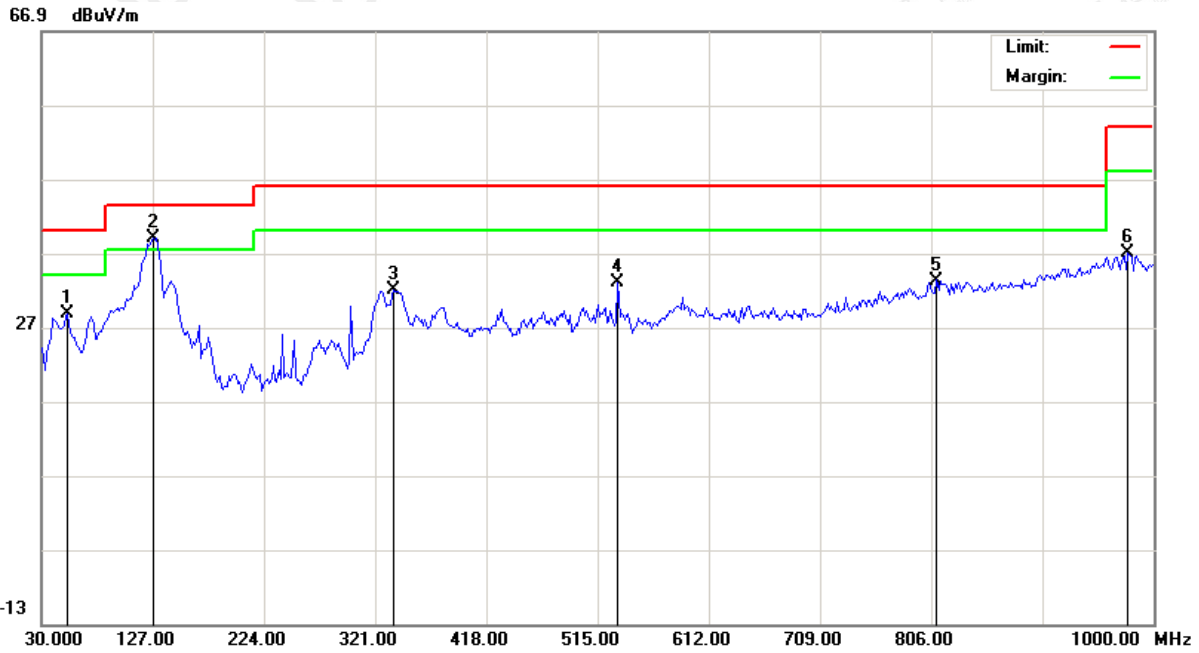
Radiated Emission below 1GHz Test at 3m Distance-Horizontal



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		130.2332	13.57	18.61	32.18	43.50	-11.32	peak			
2		175.5000	8.02	17.59	25.61	43.50	-17.89	peak			
3		299.9833	12.50	19.47	31.97	46.00	-14.03	peak			
4		325.8500	11.98	20.38	32.36	46.00	-13.64	peak			
5	*	833.4833	6.00	30.84	36.84	46.00	-9.16	peak			
6		957.9667	4.58	32.20	36.78	46.00	-9.22	peak			

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Radiated Emission below 1GHz Test at 3m Distance-Vertical



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		52.6333	9.38	19.50	28.88	40.00	-11.12	peak			
2	*	127.0000	20.66	18.41	39.07	43.50	-4.43	peak			
3		337.1666	11.32	20.77	32.09	46.00	-13.91	peak			
4		532.7833	7.40	25.63	33.03	46.00	-12.97	peak			
5		810.8500	2.75	30.55	33.30	46.00	-12.70	peak			
6		977.3667	4.54	32.37	36.91	54.00	-17.09	peak			

RESULT: PASS

Note:

Level(dBuV/m)=Reading(dBuV)+Factor(dB/m)

Factor(dB/m)=Antenna Factor(dB/m)+Cable loss(dB)+Attenuation(dB)for Attenuator

Margin=Level-Limit

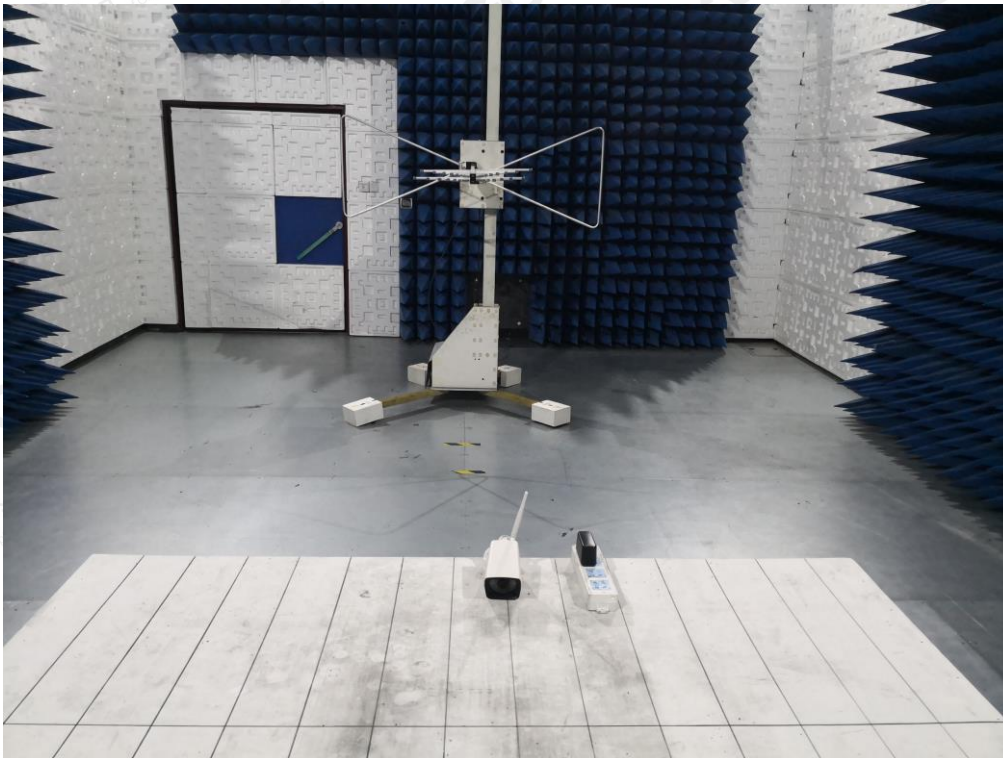
Remark: which above 1GHz are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

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APPENDIX A: PHOTOGRAPHS OF TEST SETUP
FCC LINE CONDUCTED EMISSION TEST SETUP



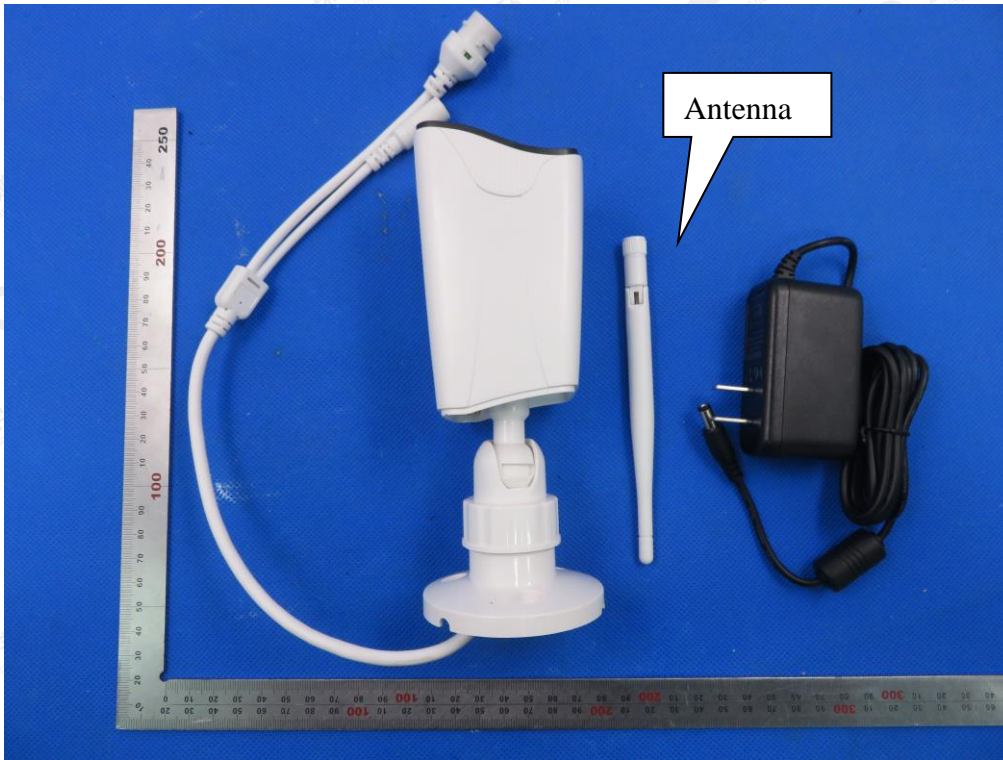
FCC RADIATED EMISSION TEST SETUP



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APPENDIX B: PHOTOGRAPHS OF EUT

ALL VIEW OF EUT



TOP VIEW OF EUT



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BOTTOM VIEW OF EUT



FRONT VIEW OF EUT



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BACK VIEW OF EUT



LEFT VIEW OF EUT



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RIGHT VIEW OF EUT

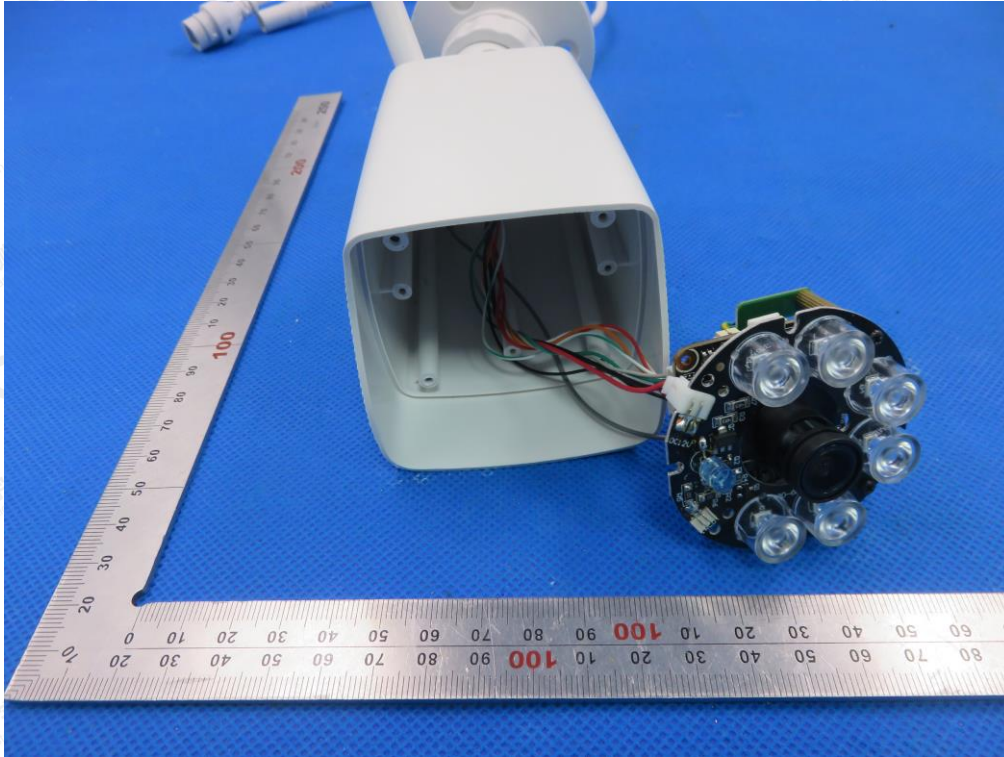


OPEN VIEW OF EUT-1

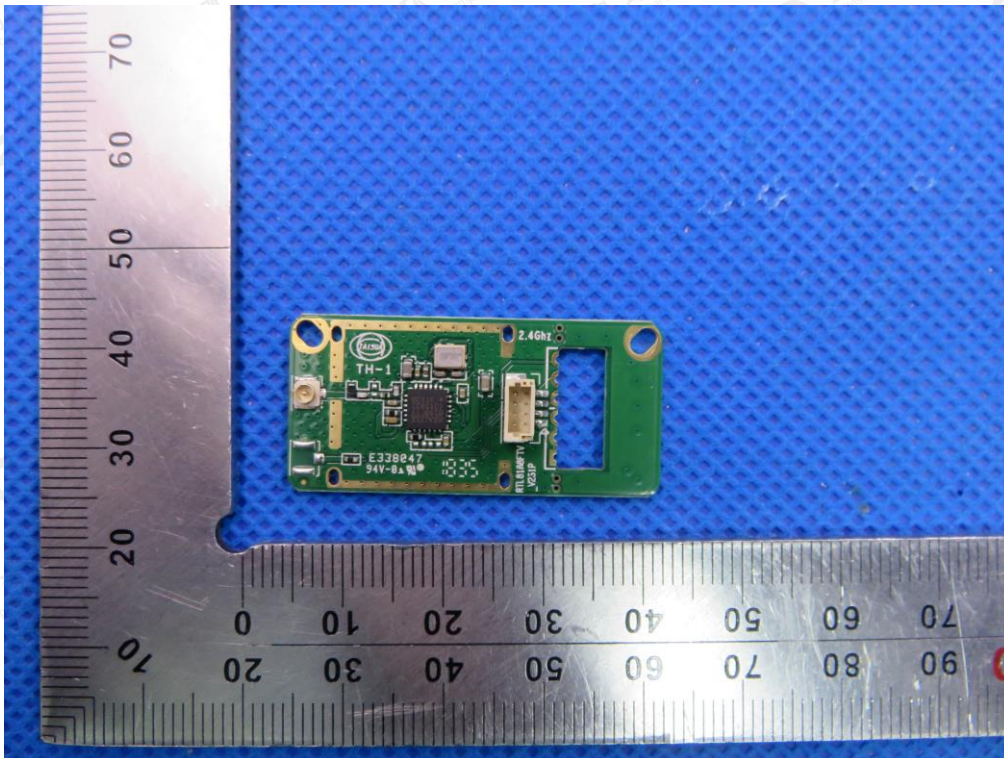


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OPEN VIEW OF EUT-2

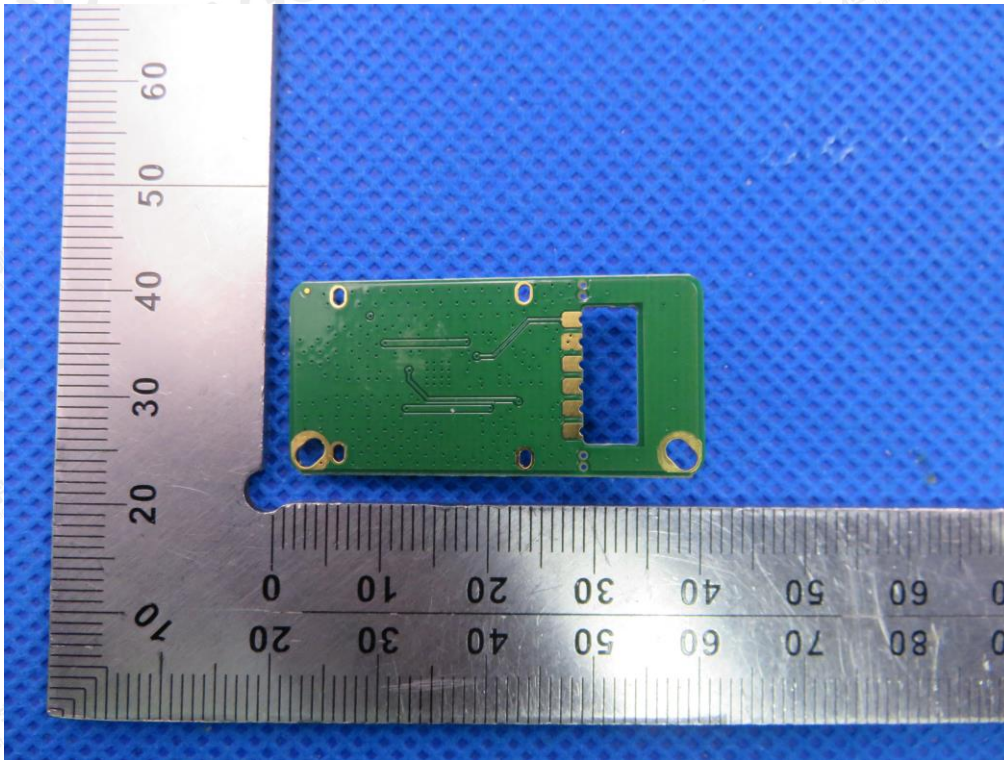


INTERNAL VIEW OF EUT-1

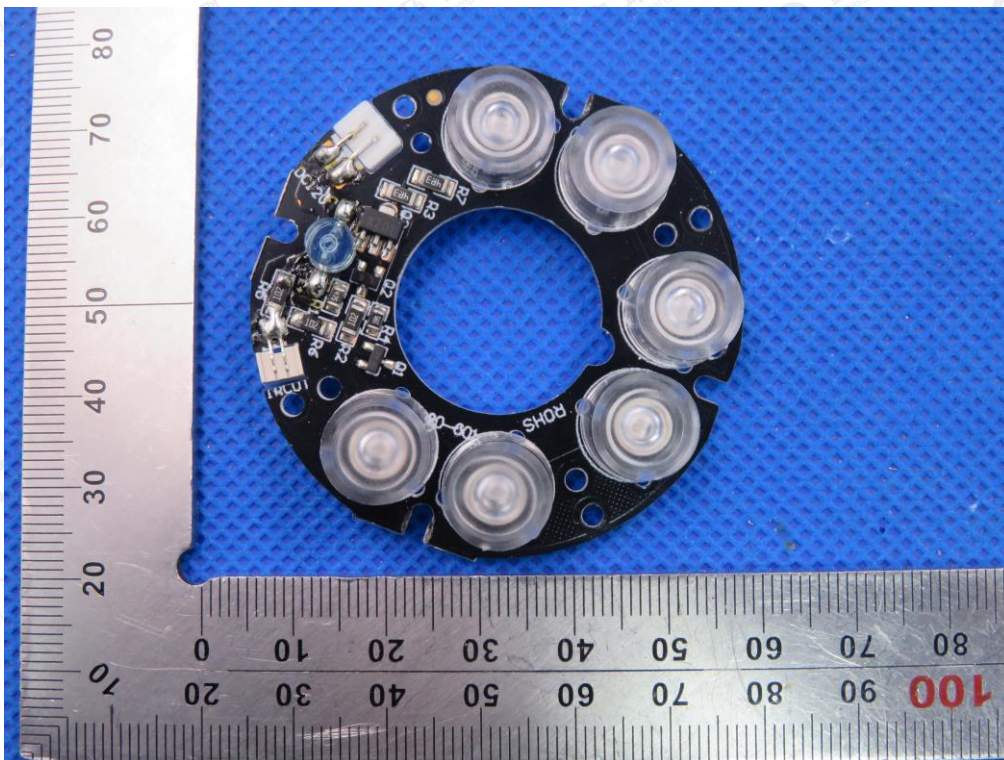


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INTERNAL VIEW OF EUT-2

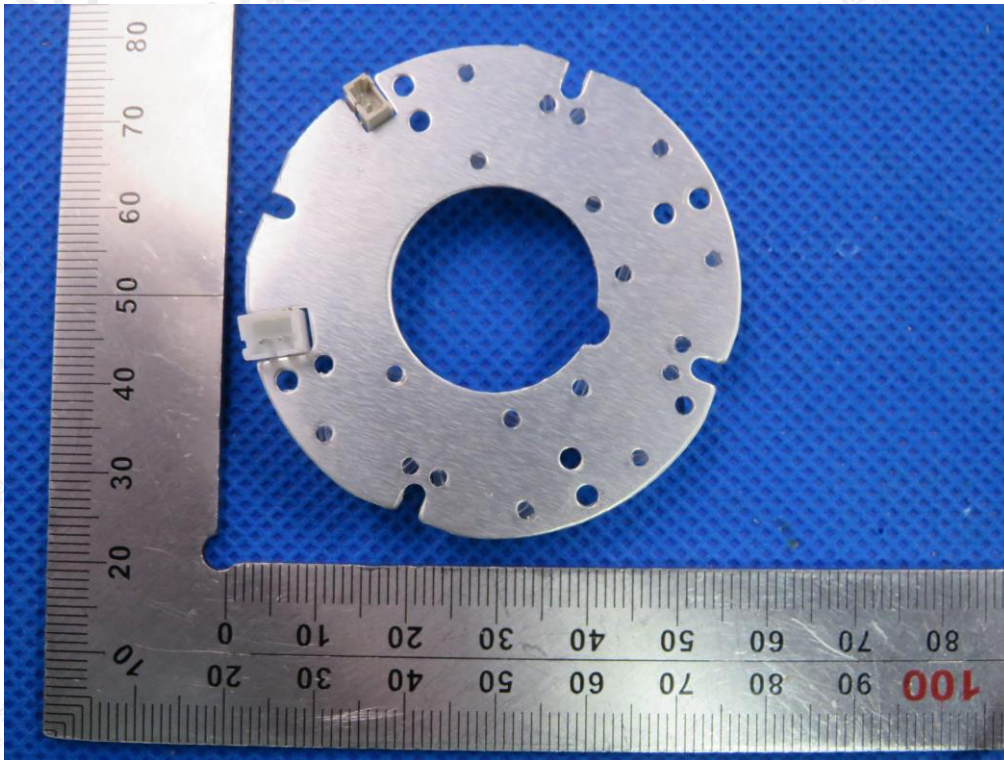


INTERNAL VIEW OF EUT-3

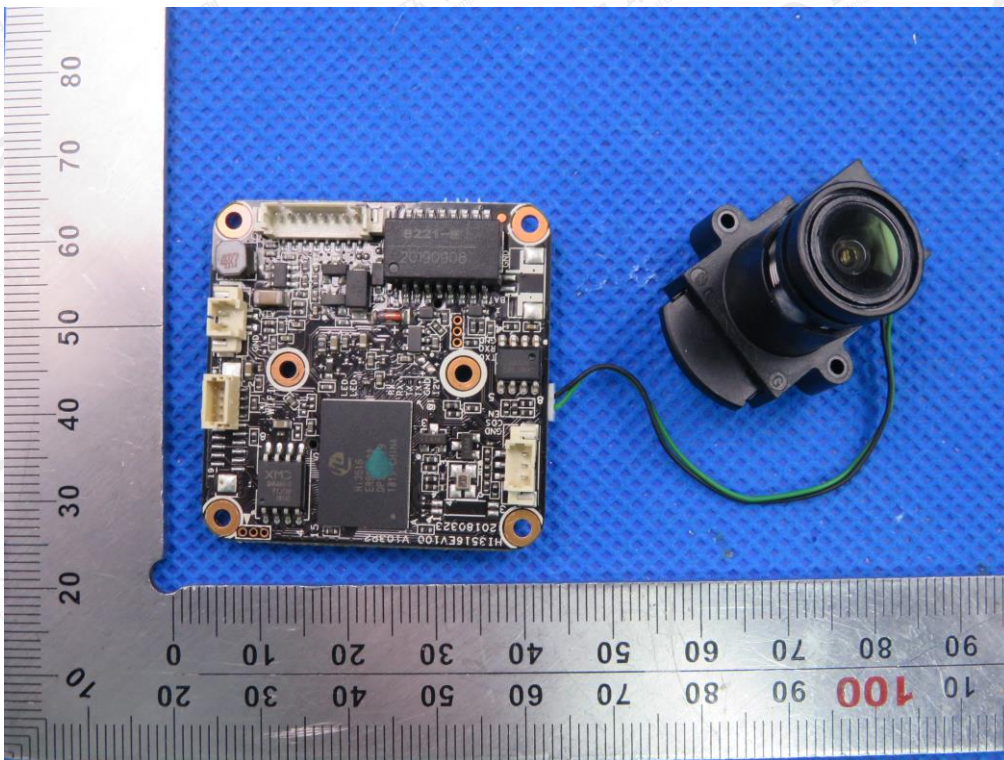


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INTERNAL VIEW OF EUT-4

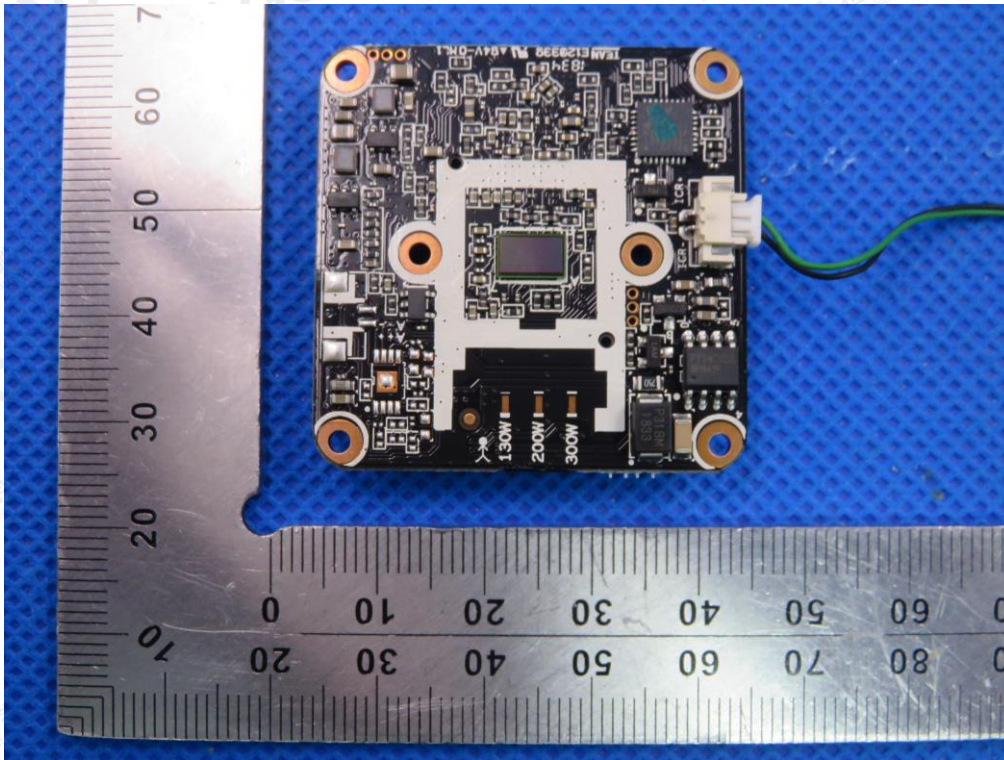


INTERNAL VIEW OF EUT-5

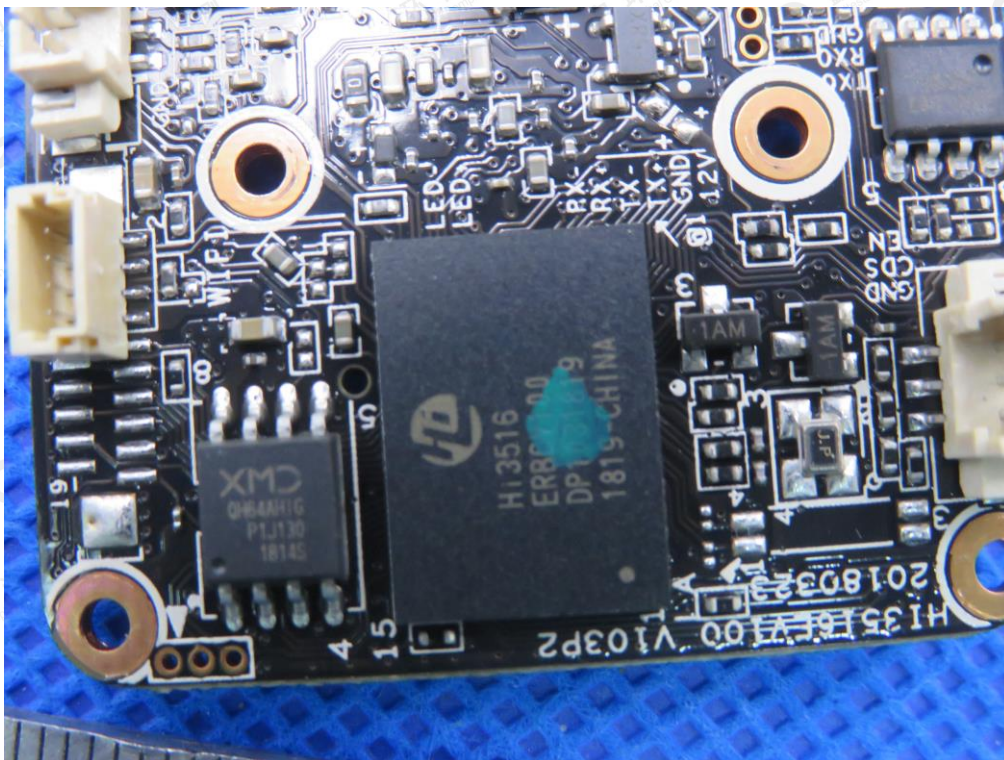


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INTERNAL VIEW OF EUT-6

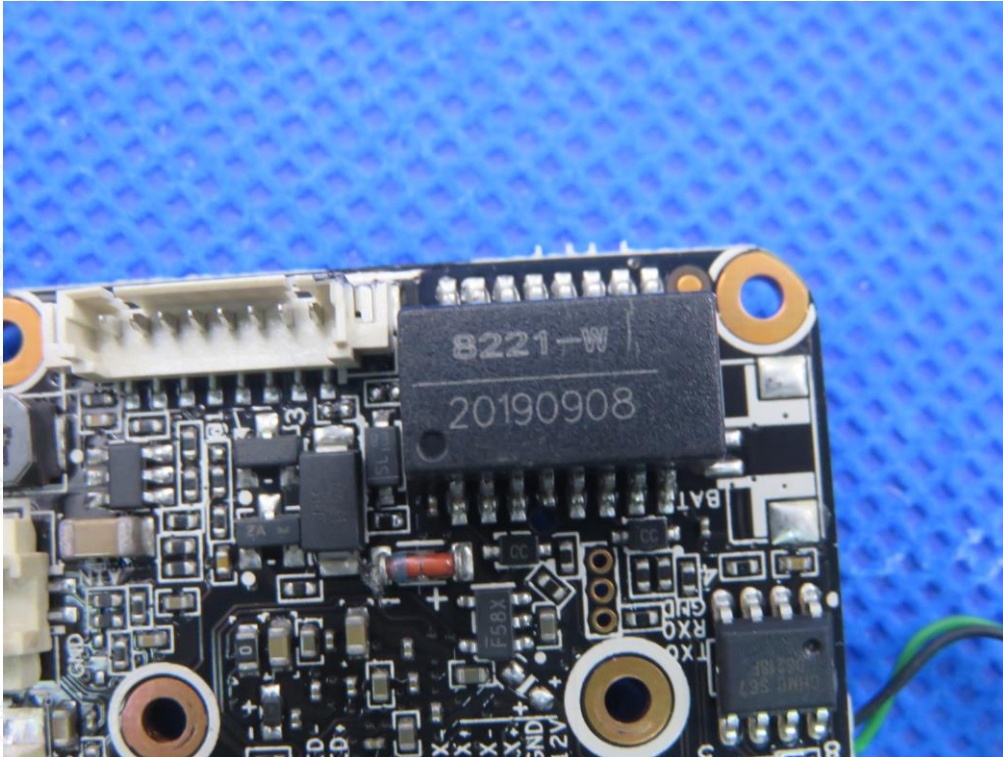


INTERNAL VIEW OF EUT-7

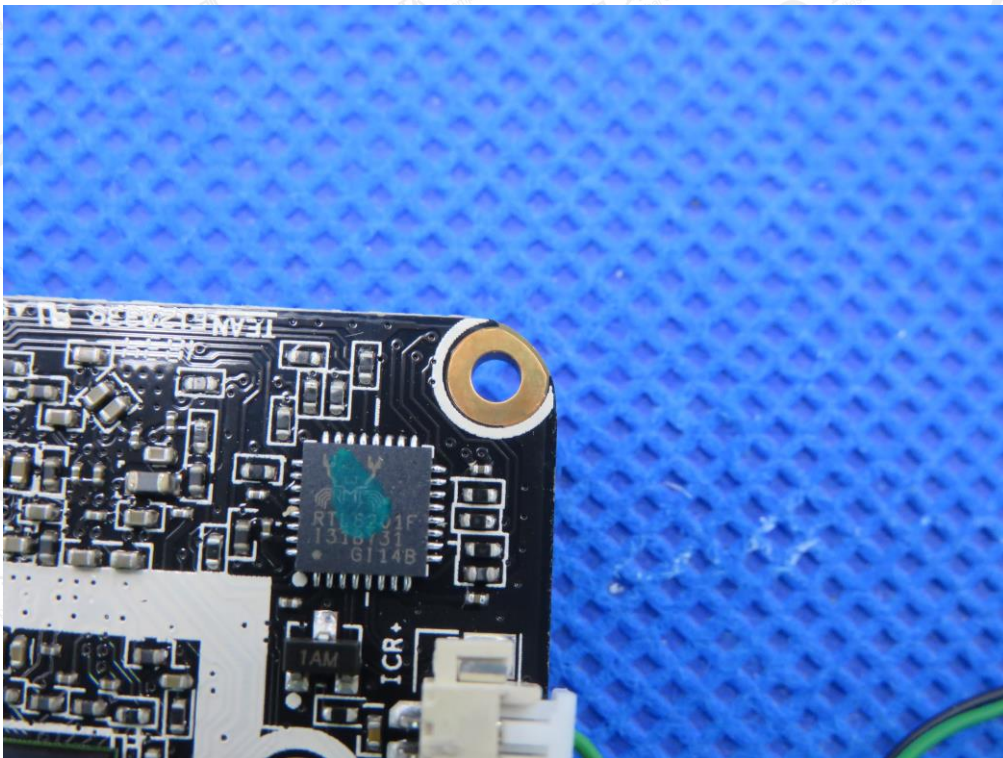


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INTERNAL VIEW OF EUT-8



INTERNAL VIEW OF EUT-9



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VIEW OF ANTENNA CONNECTOR



----END OF REPORT----

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