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EUT	Wireless Camera	Model Name	ZG2322M
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2412MHZ	Antenna	Vertical

ΡK



AV

u i	RF 50 2.413065	AC 0000000	PNO: Fast	Trig: Free		Avg Typ Avg Hold	ALIGN AUTO e: RMS i:>100/100	TRAC	M Apr 01, 2020 CE 1 2 3 4 5 6 PE A WWWWW ET A N N N N N	Peak Search
10 dB/div	Ref 110.	00 dBµV/n	IFGain:Low	#Atten: 20	dB			2.413 0)65 GHz dBµV/m	Next Pea
100										Next Pk Rig
70.0 60.0					/					Next Pk Lo
40.0 30.0 20.0				2						Marker De
Start 2.37 #Res BW		X	#V	BW 3.0 MHz*	FUNC			.000 ms (2500 GHz (1001 pts)	Mkr⊸(
1 N 1 2 N 1 3 4 5	f	2.413 (065 GHz 000 GHz	97.813 dBµV/ 37.917 dBµV/	m			PONCTI		Mkr→RefL
6 7 8 9 10										M c 1 c
11				III						

RESULT: PASS





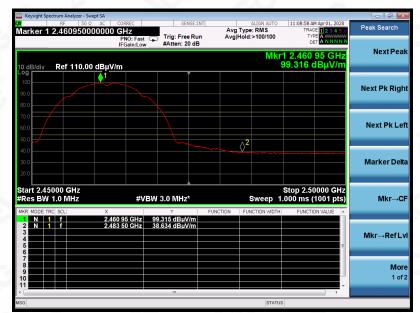
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EUT	Image: Model Name Model Name		ZG2322M
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2462MHZ	Antenna	Horizontal

ΡK



AV



RESULT: PASS





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EUT	Wireless Camera	Model Name	ZG2322M
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2462MHZ	Antenna	Vertical

ΡK







RESULT: PASS





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EUT	UT Wireless Camera Model		ZG2322M
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11g with data rate 6 2412MHZ	Antenna	Horizontal

ΡK



AV

XI I	RF 50 2.418290	Ω AC	CORREC GHZ PNO: Fast IEGain: Low	Trig: Fr			ALIGN AUTO Type: RMS Hold:>100/100	TYPE	Apr 01, 2020 1 2 3 4 5 6 A WWWWWW A NNNNN	Peak Search
10 dB/div	Ref 110.0	00 dBµV/	m					2.418 29 92.096 d		NextPea
100 90.0 80.0								1 -		Next Pk Rig
70.0 60.0					- And					Next Pk Le
40.0				2 						Marker De
≉Res BW	2000 GHz 1.0 MHz		#V	BW 3.0 MH				Stop 2.42: .000 ms (1	001 pts)	Mkr→C
3 4 5		× 2.418 2.390	290 GHz 000 GHz	Y 92.082 dBj 39.977 dBj	JV/m	NCTION	FUNCTION WIDTH	FUNCTION	I VALUE	Mkr→RefL
6 7 8 9 10 11										Мо 1 о
				III					•	

RESULT: PASS





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EUT	Wireless Camera	Model Name	ZG2322M
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11g with data rate 6 2412MHZ	Antenna	Vertical

ΡK



AV

a i i i i i	RF 50 2.415265	Ω AC	CORREC GHz PNO: Fast		SENSE:INT		ALIGN AUTO Type: RMS Hold:>100/100	TRAC	M Apr 01, 2020 E 1 2 3 4 5 6 E A HIMM	Peak Search
I0 dB/div	Ref 110.0	0 dBµV/	IFGain:Low		20 dB		Mkr1	2.415 2 90.055 c	65 GHz BµV/m	Next Pea
- og 100 90.0 80.0								↓ ¹		Next Pk Rig
70.0 60.0 50.0				2		<i>,</i> /				Next Pk Le
40.0 30.0 20.0) ²						Marker De
≉Res BW			#V	BW 3.0 MI				.000 ms (Mkr→C
MKR MODE TF 1 N 1 2 N 1 3 4 5 6	f	× 2.415 2.390	265 GHz 000 GHz	Y 90.011 dB 38.608 dB	uV/m	JNCTION	FUNCTION WIDTH	FUNCTIO	ON VALUE	Mkr→RefL
6 7 8 9 10 11										Мо 1 о
sg				m			STATU	-	•	

RESULT: PASS





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EUT	JT Wireless Camera Model Name		ZG2322M
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11g with data rate 6 2462MHZ	Antenna	Horizontal

ΡK



AV



RESULT: PASS





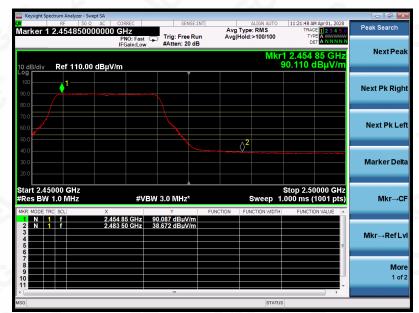
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EUT	Wireless Camera	Model Name	ZG2322M
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11g with data rate 6 2462MHZ	Antenna	Vertical

ΡK



AV



RESULT: PASS





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EUT	Wireless Camera	Model Name	ZG2322M
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

ΡK



AV



RESULT: PASS





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EUT	Wireless Camera	Model Name	ZG2322M
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

ΡK



AV



RESULT: PASS



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Service Hotline:400 089 2118



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EUT	Wireless Camera	Model Name	ZG2322M
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

ΡK



AV



RESULT: PASS





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EUT	Wireless Camera	Model Name	ZG2322M
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

ΡK



AV



RESULT: PASS



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m Service Hotline:400 089 2118



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EUT	Wireless Camera	Model Name	ZG2322M
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n 40 with data rate 13.5 2422MHZ	Antenna	Horizontal

ΡK



AV



RESULT: PASS





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EUT	Wireless Camera	Model Name	ZG2322M
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n 40 with data rate 13.5 2422MHZ	Antenna	Vertical

ΡK



AV



RESULT: PASS



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EUT	Wireless Camera	Model Name	ZG2322M
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n 40with data rate 13.5 2452MHZ	Antenna	Horizontal

ΡK

RF	Analyzer - Swept SA 50 Ω AC	CORREC	SENSE:I	NT	ALIGN AUTO	11:32:34 AM Apr 01, 20	20
Marker 1 2.4	4631000000	PNO: Fast IFGain:Low	Trig: Free Ru #Atten: 20 dE	n Avg	Type: Log-Pwr Hold:>100/100	TRACE 2 3 4 TYPE M	N N
10 dB/div Re	f 110.00 dBµ\	//m				1 2.446 31 GH 00.018 dBµV/i	
	i 1		Ť				
90.0							Next Pk Rig
80.0				<u>\</u>			
70.0				Wy Hay			
61.0					²		Next Pk L
50.0					1110, 1910	and the first and a second	
40.0							
30.0							Marker De
20.0							
Start 2.43000 #Res BW 1.0		#VE	BW 3.0 MHz		Sweep 1	Stop 2.50000 GH .000 ms (1001 pt	iz s) Mkr⊸≀
MKR MODE TRC SCL			Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	
2 N 1 f	2.4	46 31 GHZ 83 50 GHZ	100.018 dBµV/m 57.411 dBµV/m				
3 4							Mkr→Ref
5							E
7							Mo
8 9							
8 9 10							10
8			III			,	- 1 c

AV



RESULT: PASS





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EUT	Wireless Camera	Model Name	ZG2322M
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n 40 with data rate 13.5 2452MHZ	Antenna	Vertical

ΡK



AV

	PNO: Fast IFGain:Lov		Avg Hold:>10	DETANNN	No. 4 De
dB/div Ref 110.	00 dBµV/m			Mkr1 2.440 78 GH 85.939 dBµV/n	
og 100					Next Pk Rid
0.0					Next Pk L
60.0 			hora .	\diamond^2	
0.0					Marker De
0.0					
tart 2.43000 GHz Res BW 1.0 MHz	#\	/BW 3.0 MHz*	Swe	Stop 2.50000 GH eep 1.000 ms (1001 pts	z Mkr→
KR MODE TRC SCL	× 2.440 78 GHz	۲ 85.940 dBuV/m	FUNCTION FUNCTIO	N WIDTH FUNCTION VALUE	
2 N 1 f	2.483 50 GHz	40.153 dBµV/m			Mkr→Ref
4					
4 5 6 7 8					

RESULT: PASS



13. FCC LINE CONDUCTED EMISSION TEST

13.1. LIMITS OF LINE CONDUCTED EMISSION TEST

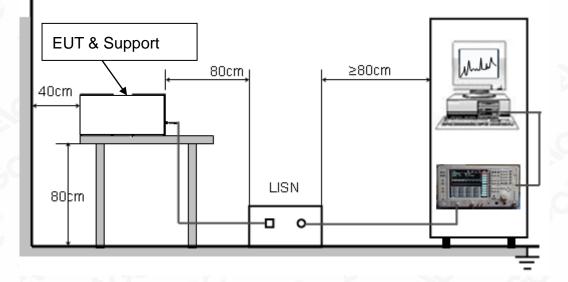
Fraguanay	Maximum RF Line Voltage				
Frequency	Q.P.(dBuV)	Average(dBuV)			
150kHz~500kHz	66-56	56-46			
500kHz~5MHz	56	46			
5MHz~30MHz	60	50			

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 0.50 MHz.

13.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST







13.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

- 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. All support equipments received AC120V/60Hz power from a LISN, if any.
- 5. The EUT received DC 12V power from adapter which received AC120V/60Hz power from a LISN.
- 6. The 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.
- 7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
- 8. During the above scans, the emissions were maximized by cable manipulation.
- 9. The test mode(s) were scanned during the preliminary test.

Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

13.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

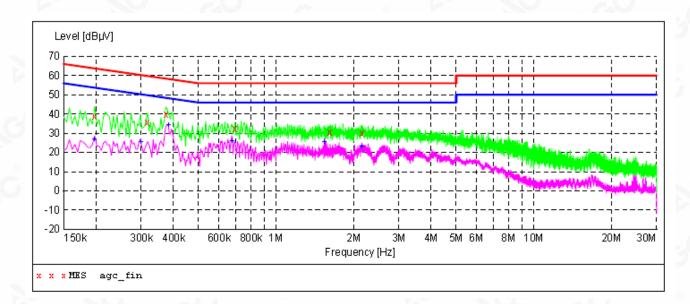
- 1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
- A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used 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.
- 3. The test data of the worst case condition(s) was reported on the Summary Data page.





13.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

Line Conducted Emission Test Line 1-L



MEASUREMENT RESULT: "agc fin"

2020/3/17 19:	06						
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.198000	38.70	11.3	64	25.0	QP	L1	FLO
0.318000	35.70	11.3	60	24.1	QP	г1	FLO
0.374000	40.00	11.3	58	18.4	QP	г1	FLO
0.694000	32.30	11.3	56	23.7	QP	L1	FLO
1.622000	30.40	11.3	56	25.6	QP	L1	FLO
2.158000	30.00	11.3	56	26.0	QP	г1	FLO

MEASUREMENT RESULT: "agc fin2"

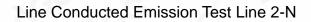
2020/3/17	19:06							
Frequend	су Б	evel T	ransd	Limit I	Margin	Detector	Line	\mathbf{PE}
MI	Iz	dBµV	dB	dBµV	dB			
0.19800)0 2	6.80	11.3	54	26.9	AV	г1	FLO
0.29800)0 2	5.40	11.3	50	24.9	AV	г1	FLO
0.38200)0 3	4.10	11.3	48	14.1	AV	г1	FLO
0.67400)0 2	5.60	11.3	46	20.4	AV	L1	FLO
1.54200)0 2	5.20	11.3	46	20.8	AV	г1	FLO
2.15800)0 2	3.20	11.3	46	22.8	AV	L1	FLO

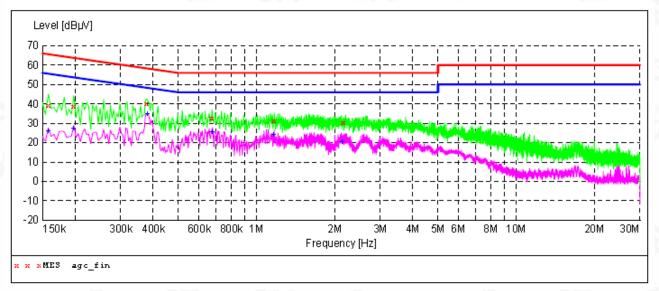


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MEASUREMENT RESULT: "agc_fin"

2020/3/17 19:02

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.158000 0.198000 0.378000 0.674000 1.170000 2.158000	39.30 38.90 40.40 32.90 31.50 30.30	11.3 11.3 11.3 11.3 11.3 11.3 11.3	66 64 58 56 56 56	26.3 24.8 17.9 23.1 24.5 25.7	QP QP QP QP QP QP	N N N N N	FLO FLO FLO FLO FLO FLO

MEASUREMENT RESULT: "agc fin2"

2020/3/17 19: Frequency MHz	:02 Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.158000	25.80	11.3	56	29.8	AV	Ν	FLO
0.198000	27.30	11.3	54	26.4	AV	N	FLO
0.382000	34.60	11.3	48	13.6	AV	N	FLO
0.678000	25.40	11.3	46	20.6	AV	N	FLO
1.170000	24.00	11.3	46	22.0	AV	N	FLO
2.146000	20.20	11.3	46	25.8	AV	Ν	FLO

RESULT: PASS

Note: All the test modes had been tested, the mode 1 was the worst case. Only the data of the worst case would be record in this test report.





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



FCC RADIATED EMISSION TEST SETUP ABOVE 1GHZ

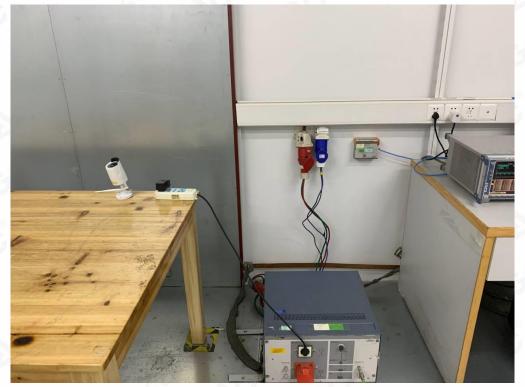






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CONDUCTED EMISSION TEST SETUP





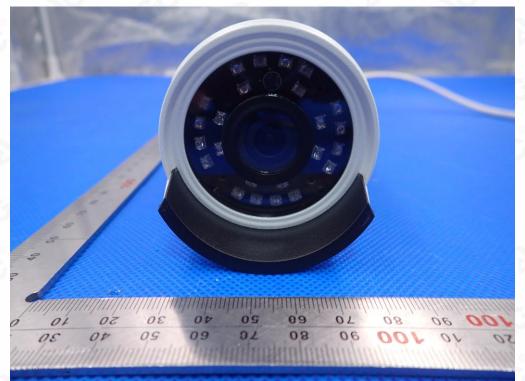


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APPENDIX B: PHOTOGRAPHS OF EUT ALL VIEW OF EUT

TOP VIEW OF EUT





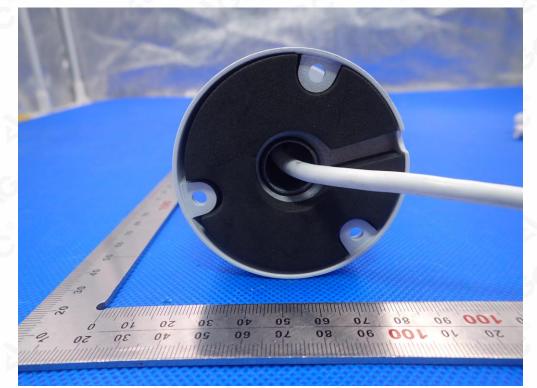
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BOTTOM VIEW OF EUT



FRONT VIEW OF EUT







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05 09 09 02 06 001

BACK VIEW OF EUT

LEFT VIEW OF EUT

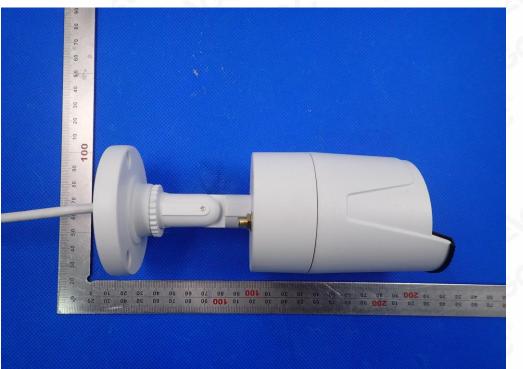




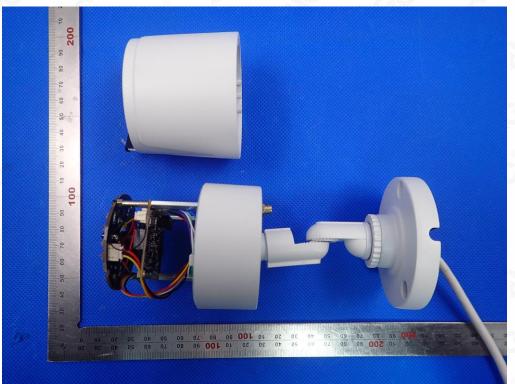


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RIGHT VIEW OF EUT



OPEN VIEW OF EUT-1





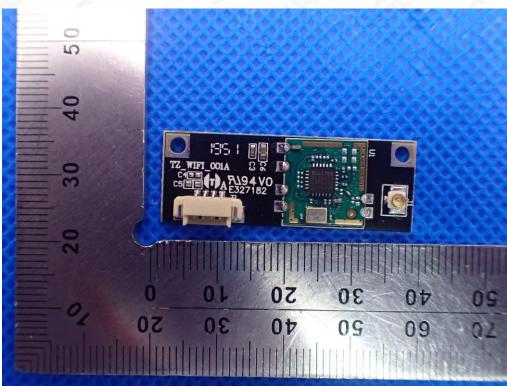


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OPEN VIEW OF EUT-2

INTERNAL VIEW OF EUT-1





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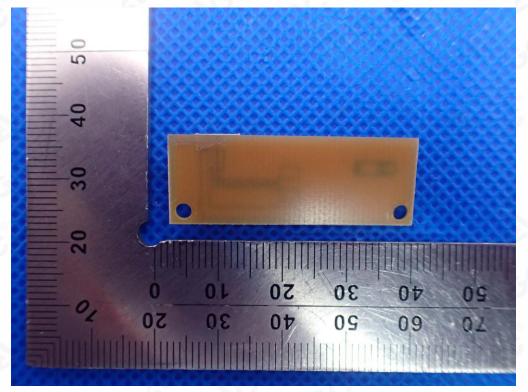
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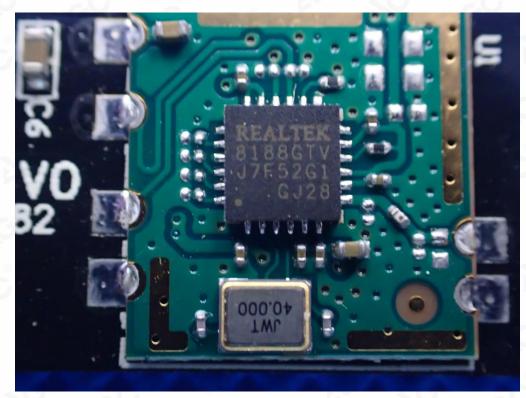


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INTERNAL VIEW OF EUT-2



INTERNAL VIEW OF EUT-3







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INTERNAL VIEW OF EUT-5





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70

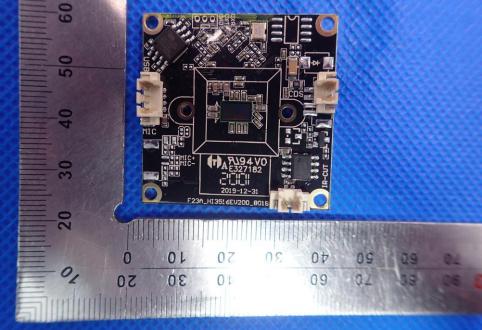
60

50

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INTERNAL VIEW OF EUT-7



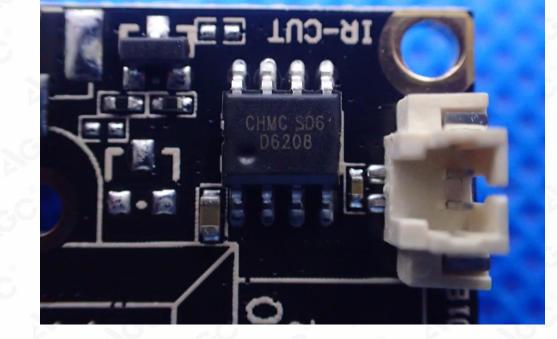
INTERNAL VIEW OF EUT-6

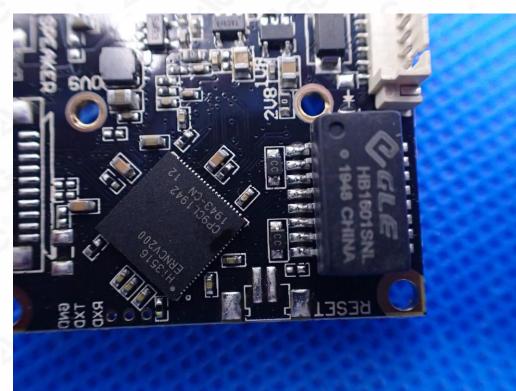


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INTERNAL VIEW OF EUT-9

INTERNAL VIEW OF EUT-8

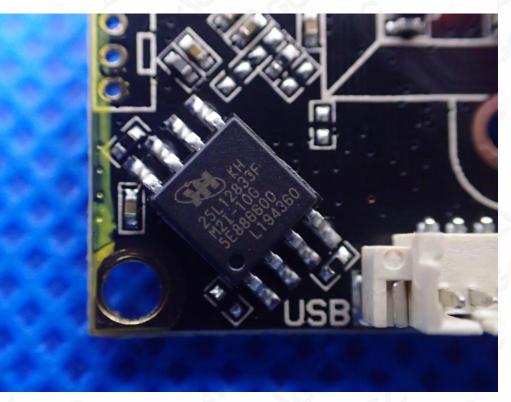


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INTERNAL VIEW OF EUT-10



----END OF REPORT----

