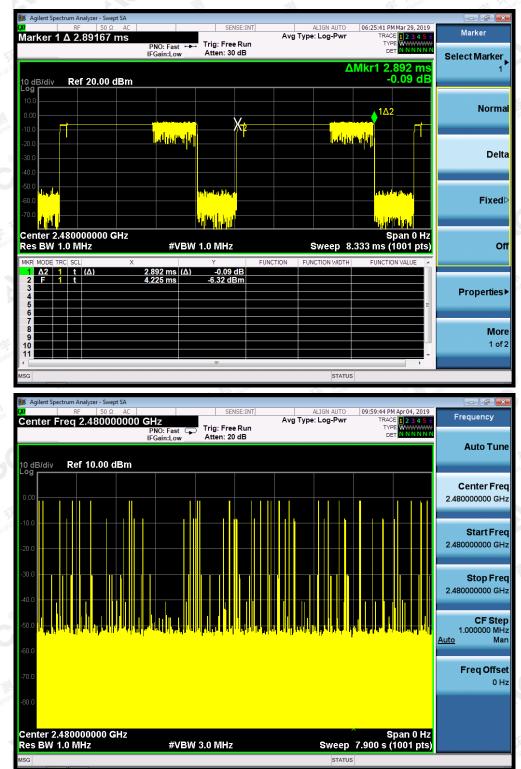


TEST PLOT OF MIDDLE CHANNEL

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TEST PLOT OF HIGH CHANNEL

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13. FREQUENCY SEPARATION

13.1. MEASUREMENT PROCEDURE

The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:

1. Span: Wide enough to capture the peaks of two adjacent channels.

2. RBW: Start with the RBW set to approximately 30% of the channel spacing; adjust as necessary to best identify the center of each individual channel.

3. Video (or average) bandwidth (VBW) \geq RBW.

4. Sweep: Auto. e) Detector function: Peak. f) Trace: Max hold. g) Allow the trace to stabilize.

Use the marker-delta function to determine the separation between the peaks of the adjacent channels.

13.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)

Same as described in section 6.2

13.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6.3

13.4. LIMITS AND MEASUREMENT RESULT

CHANNEL	CHANNEL SEPARATION	LIMIT	RESULT
	KHz	KHz	
CH01-CH02	1000	>=25 KHz or 2/3 20 dB BW	Pass

TEST PLOT FOR FREQUENCY SEPARATION

Avg Type: Log-Pw Avg|Hold:>100/100 Peak Search 2 403085000000 GHz Trig: Free Run Next Peak Mkr2 2.403 085 GHz -4.141 dBm Ref 10.00 dBm Δ Next Pk Right Next Pk Left Marker Delta Start 2.400000 GHz #Res BW 100 kHz Stop 2.405000 GHz Sweep 1.000 ms (1001 pts) #VBW 300 kHz Mkr→CF <u>2.402 085 GHz</u> 2.403 085 GHz <u>4.108 dBr</u> 4.141 dBr Mkr→RefLv More 1 of 2

Note: The 8-DPSK modulation is the worst case and recorded in the report.

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14. FCC LINE CONDUCTED EMISSION TEST

14.1. LIMITS OF LINE CONDUCTED EMISSION TEST

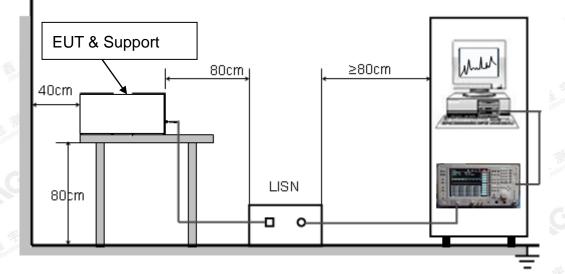
free and a second	Maximum RF Line Voltage					
Frequency	Q.P.(dBuV)	Average(dBuV)				
150kHz~500kHz	66-56	56-46				
500kHz~5MHz	56	46				
5MHz~30MHz	60	50				

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.

14.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



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14.3. 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 15V 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.

14.4. 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.

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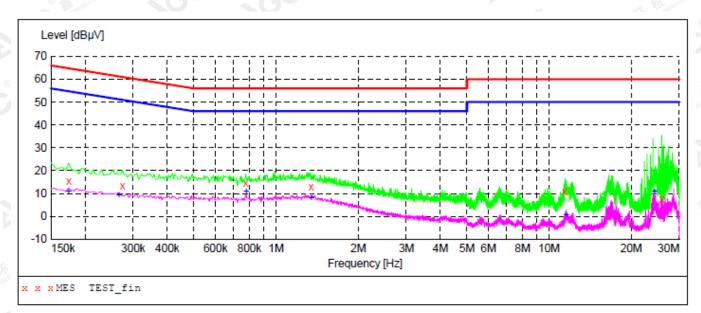
() 400 089 2118

E-mail: agc@agc-cert.com

14.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

Adapter 1

Line Conducted Emission Test Line 1-L



MEASUREMENT RESULT: "TEST fin"

3/22/2019 9:4	0AM						
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.174000	15.50	10.3	65	49.3	QP	L1	FLO
0.274000	13.30	10.2	61	47.7	QP	L1	FLO
0.774000	14.50	10.3	56	41.5	QP	L1	FLO
1.346000	13.10	10.4	56	42.9	QP	L1	FLO
11.418000	10.70	10.8	60	49.3	QP	ь1	FLO
25.882000	7.50	11.2	60	52.5	QP	ь1	FLO

MEASUREMENT RESULT: "TEST fin2"

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3/22/2019 9:4	0 am						
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.174000	11.00	10.3	55	43.8	AV	L1	FLO
0.266000	9.00	10.2	51	42.2	AV	ь1	FLO
0.778000	10.80	10.3	46	35.2	AV	L1	FLO
1.346000	8.10	10.4	46	37.9	AV	L1	FLO
11.558000	0.40	10.8	50	49.6	AV	L1	FLO
24.350000	10.90	11.1	50	39.1	AV	L1	FLO

Tel: +86-755 2908 1955

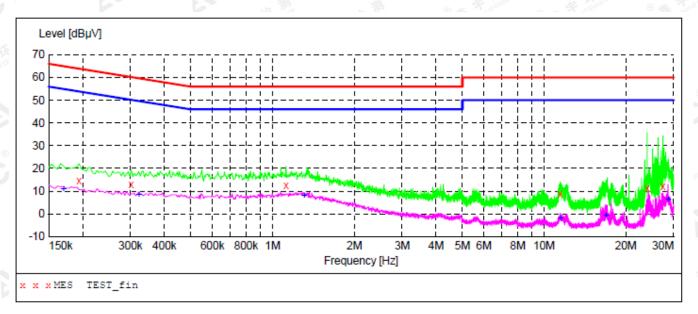
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Fax: +86-755 2600 8484

Add: 2/F., Building 2, No.1-4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Baoan District, Shenzhen, Guangdong China



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Line Conducted Emission Test Line 2-N

MEASUREMENT RESULT: "TEST fin"

3/	22/2019 9:1 Frequency MHz		Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
	0.194000 0.302000 1.122000 11.446000 23.966000 27.402000	14.60 12.80 12.60 8.70 11.10 11.90	10.3 10.2 10.4 10.8 11.1 11.2	64 60 56 60 60	49.3 47.4 43.4 51.3 48.9 48.1	QP QP QP QP	N N N N N	FLO FLO FLO FLO FLO FLO

MEASUREMENT RESULT: "TEST fin2"

3/22/2019	9:19AM						
Frequen	cy Leve	l Transd	Limit	Margin	Detector	Line	PE
M	Hz dBµ	V dB	dBµV	dB			
0.1700	00 10.9	0 10.3	55	44.1	AV	N	FLO
0.3220	00 8.5	0 10.2	50	41.2	AV	N	FLO
1.3060	00 8.0	0 10.4	46	38.0	AV	N	FLO
11.4780	00 -1.8	0 10.8	50	51.8	AV	N	FLO
16.8700	00 -0.8	0 10.9	50	50.8	AV	N	FLO
28.6020	00 6.3	0 11.2	50	43.7	AV	N	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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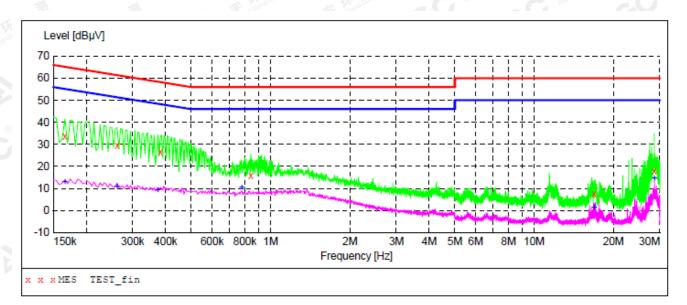
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Adapter 2

Line Conducted Emission Test Line 1-L



MEASUREMENT RESULT: "TEST fin"

3/22/2019							
Frequenc MH	-	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.16600	0 33.60	10.3	65	31.6	QP	L1	FLO
0.26200	0 29.60	10.2	61	31.8	QP	ь1	FLO
0.38200	0 26.40	10.3	58	31.8	QP	L1	FLO
0.84200	0 16.00	10.4	56	40.0	QP	L1	FLO
16.90200	0 7.60	10.9	60	52.4	QP	ь1	FLO
28.57800	0 18.10	11.2	60	41.9	QP	ь1	FLO

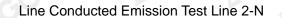
MEASUREMENT RESULT: "TEST fin2"

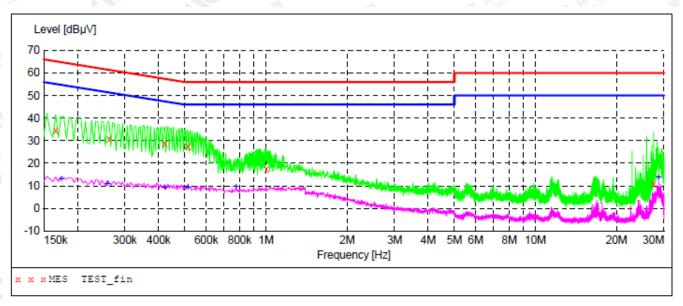
3/	22/2019 9:0)2AM						
	Frequency	Level	Transd	Limit	Margin	Detector	Line	PE
	MHz	dBµV	dB	dBµV	dB			
	0.166000	13.10	10.3	55	42.1	AV	L1	FLO
	0.262000	10.80	10.2	51	40.6	AV	L1	FLO
	0.374000	9.40	10.3	48	39.0	AV	L1	FLO
	0.778000	10.50	10.3	46	35.5	AV	L1	FLO
	16.898000	1.40	10.9	50	48.6	AV	L1	FLO
	28.634000	14.60	11.2	50	35.4	AV	ь1	FLO

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MEASUREMENT RESULT: "TEST fin"

3/22/2019	8:57A	M						
Frequen M	cy Hz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.1660	00	34.30	10.3	65	30.9	QP	N	FLO
0.2620	00	30.90	10.2	61	30.5	QP	N	FLO
0.4220	00	28.60	10.3	57	28.8	QP	N	FLO
0.5140	00	27.40	10.3	56	28.6	QP	N	FLO
1.0060		17.30	10.4	56	38.7	QP	N	FLO
27.4300	00	10.70	11.2	60	49.3	QP	N	FLO

MEASUREMENT RESULT: "TEST fin2"

3/22/2019 8:	57AM						
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.174000	12.90	10.3	55	41.9	AV	N	FLO
0.258000	11.00	10.2	52	40.5	AV	Ν	FLO
0.422000	9.40	10.3	47	38.0	AV	Ν	FLO
0.514000	9.00	10.3	46	37.0	AV	N	FLO
0.774000	9.70	10.3	46	36.3	AV	N	FLO
28.634000	13.90	11.2	50	36.1	AV	N	FLO

RESULT: PASS

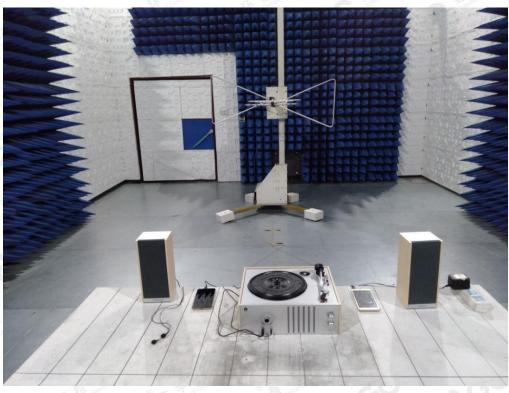
Note: All the test modes had been tested, the mode 7 was the worst case. Only the data of the worst case would be record in this test report.

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



RADIATED EMISSION TEST SETUP ABOVE 1GHZ



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CONDUCTED EMISSION TEST SETUP



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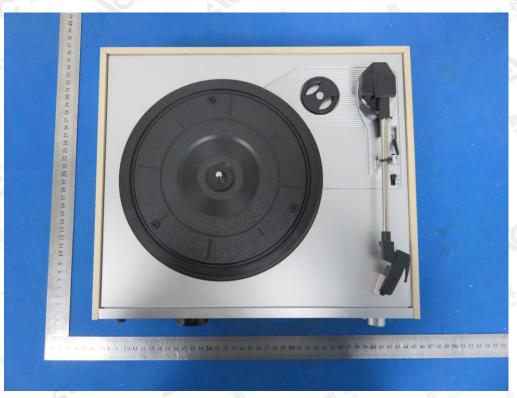
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APPENDIX B: PHOTOGRAPHS OF EUT

TOTAL VIEW OF EUT



TOP VIEW OF EUT

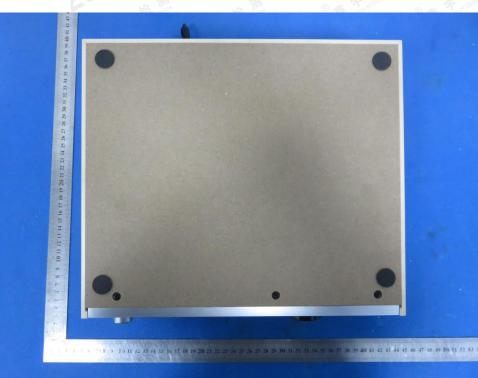


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BOTTOM VIEW OF EUT



FRONT VIEW OF EUT



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BACK VIEW OF EUT



LEFT VIEW OF EUT



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RIGHT VIEW OF EUT



VIEW OF EUT (PORT)-1



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VIEW OF EUT (PORT)-2



VIEW OF EUT (PORT)-3

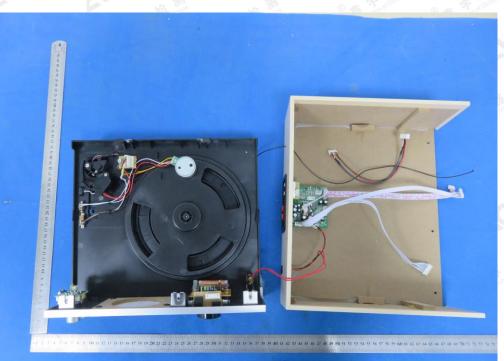
DC IN12V

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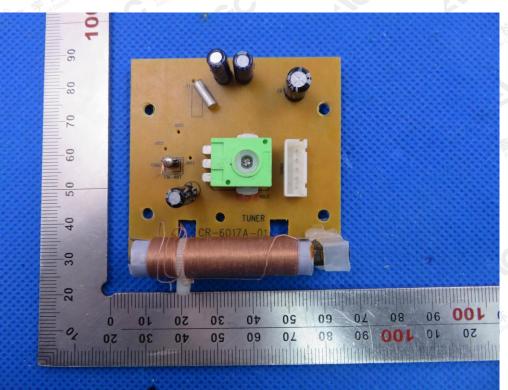


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OPEN VIEW OF EUT

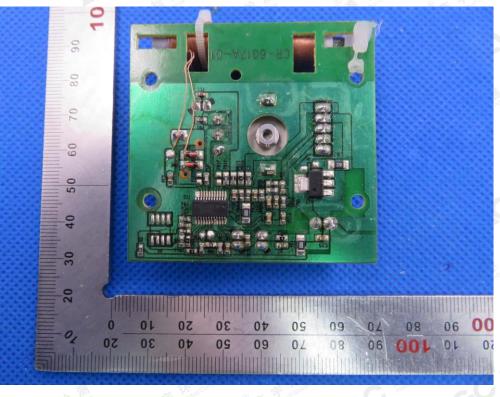
INTERNAL VIEW OF EUT-1



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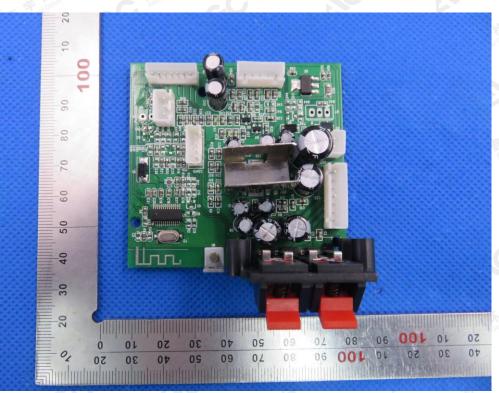


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INTERNAL VIEW OF EUT-2

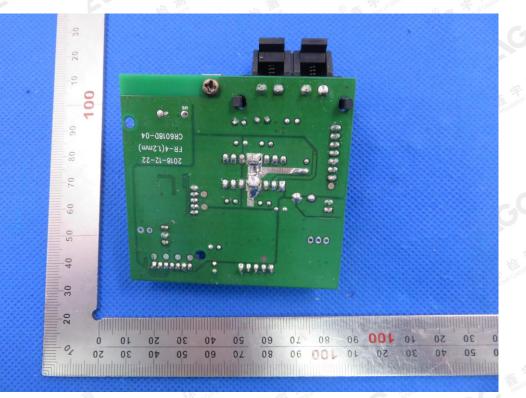
INTERNAL VIEW OF EUT-3



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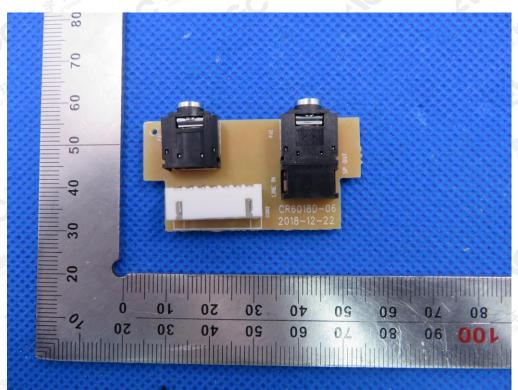


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INTERNAL VIEW OF EUT-4

INTERNAL VIEW OF EUT-5

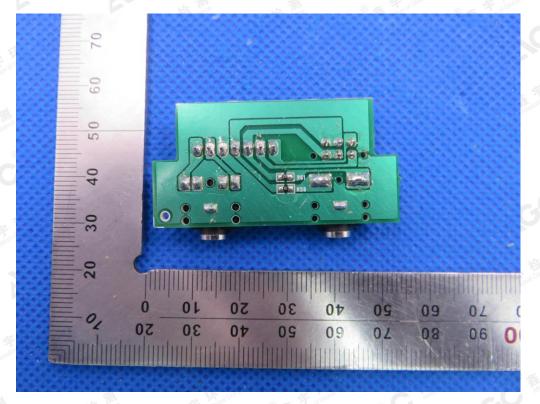


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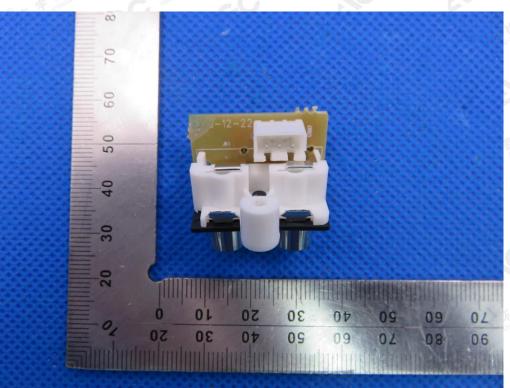


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INTERNAL VIEW OF EUT-6



INTERNAL VIEW OF EUT-7

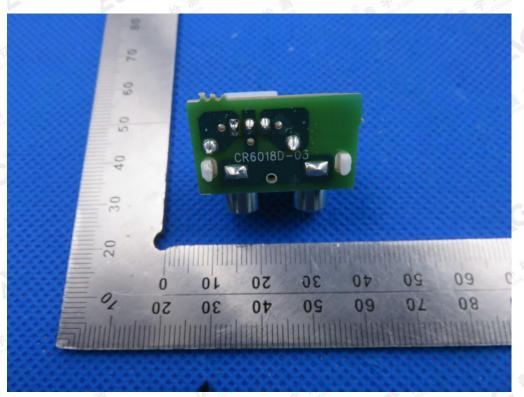


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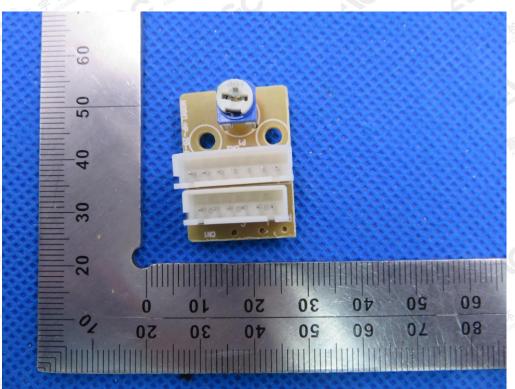


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INTERNAL VIEW OF EUT-8



INTERNAL VIEW OF EUT-9

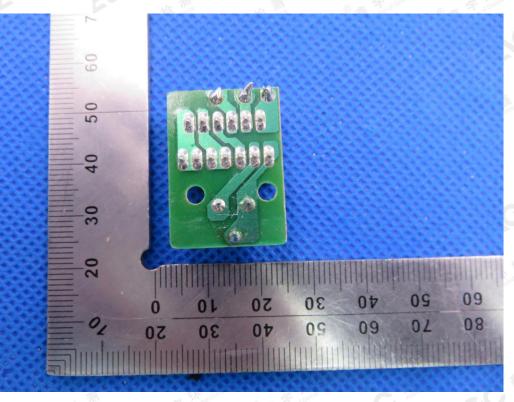


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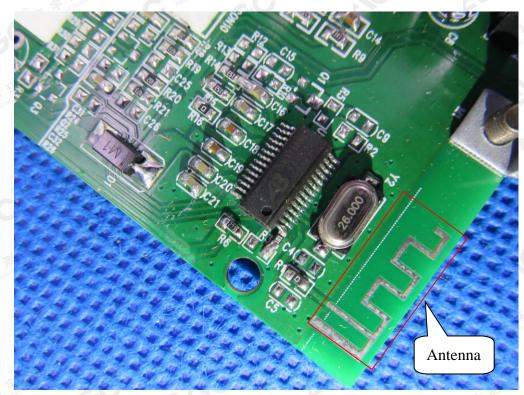


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INTERNAL VIEW OF EUT-10



INTERNAL VIEW OF EUT-11

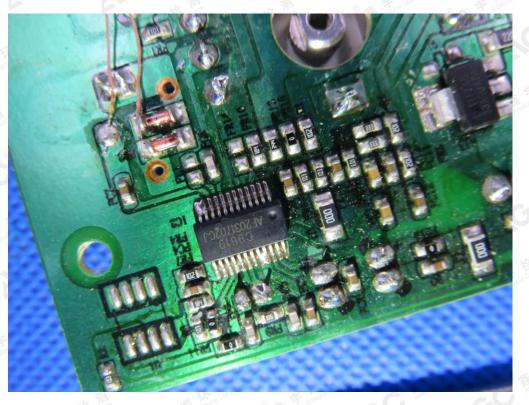


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INTERNAL VIEW OF EUT-12



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Adapter 1



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