

14. FCC LINE CONDUCTED EMISSION TEST

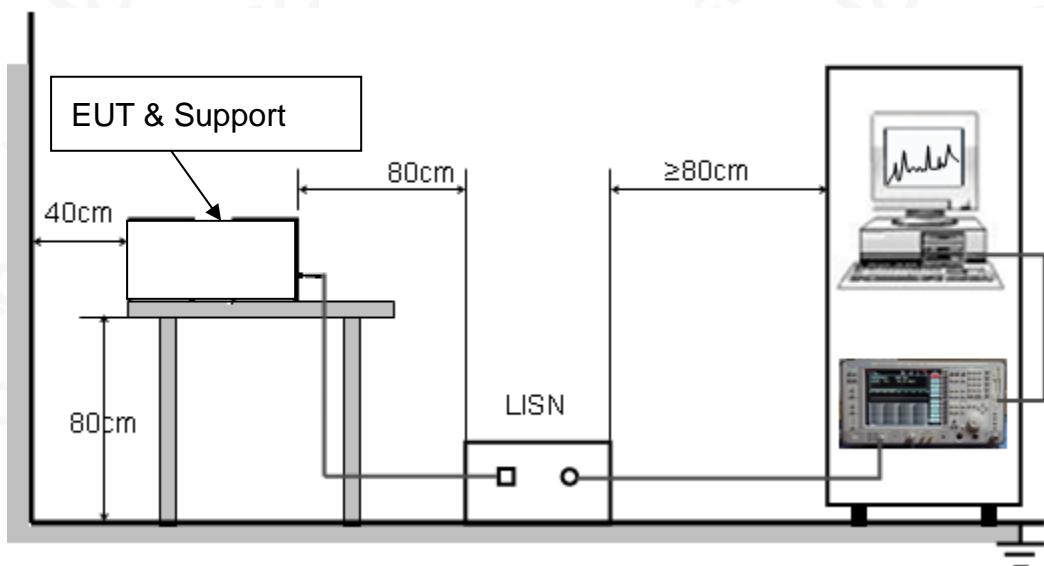
14.1. LIMITS OF LINE CONDUCTED EMISSION TEST

Frequency	Maximum RF Line Voltage	
	Q.P. (dB μ V)	Average (dB μ V)
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

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. All support equipment received AC120V/60Hz power from a LISN, if any.
5. The EUT received DC 5V 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.
2. 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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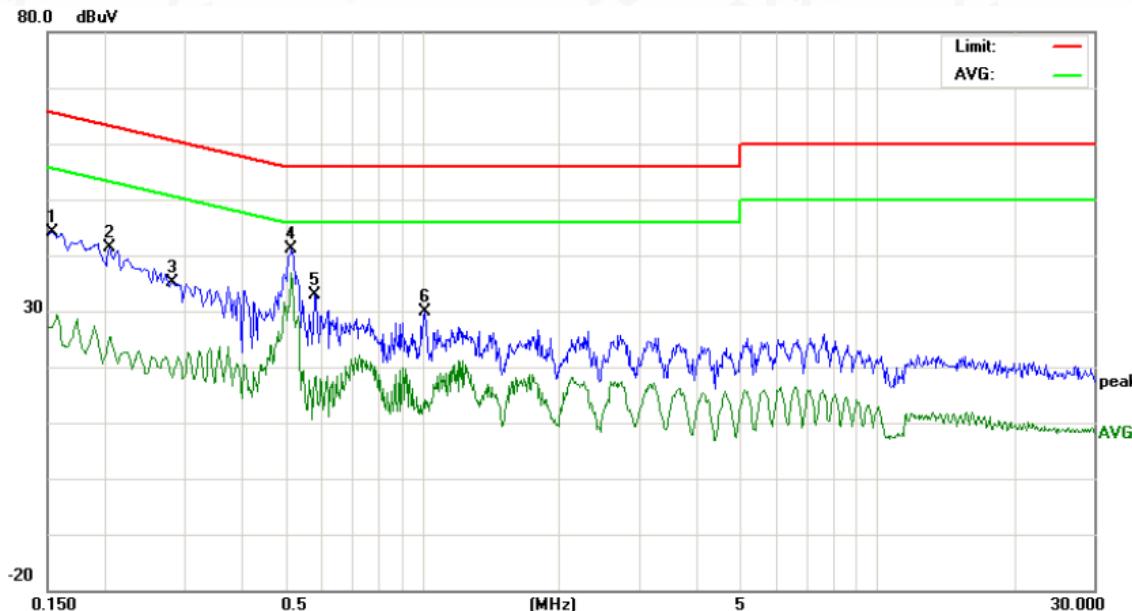
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14.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

Line Conducted Emission Test Line 1-L



No.	Freq. (MHz)	Reading_Level (dBuV)			Correct Factor	Measurement (dBuV)			Limit (dBuV)		Margin (dB)		P/F
		Peak	QP	AVG		dB	Peak	QP	AVG	QP	AVG	QP	AVG
1	0.1539	31.43	26.53	10.69	12.79	44.22	39.32	23.48	65.78	55.78	-26.46	-32.30	P
2	0.2060	28.55	24.99	10.00	12.87	41.42	37.86	22.87	63.36	53.36	-25.50	-30.49	P
3	0.2819	22.11	17.64	2.50	12.98	35.09	30.62	15.48	60.76	50.76	-30.14	-35.28	P
4	0.5180	27.41	25.09	22.21	13.75	41.16	38.84	35.96	56.00	46.00	-17.16	-10.04	P
5	0.5820	19.05	13.16	4.57	13.81	32.86	26.97	18.38	56.00	46.00	-29.03	-27.62	P
6	1.0180	16.08	7.62	-1.17	13.81	29.89	21.43	12.64	56.00	46.00	-34.57	-33.36	P

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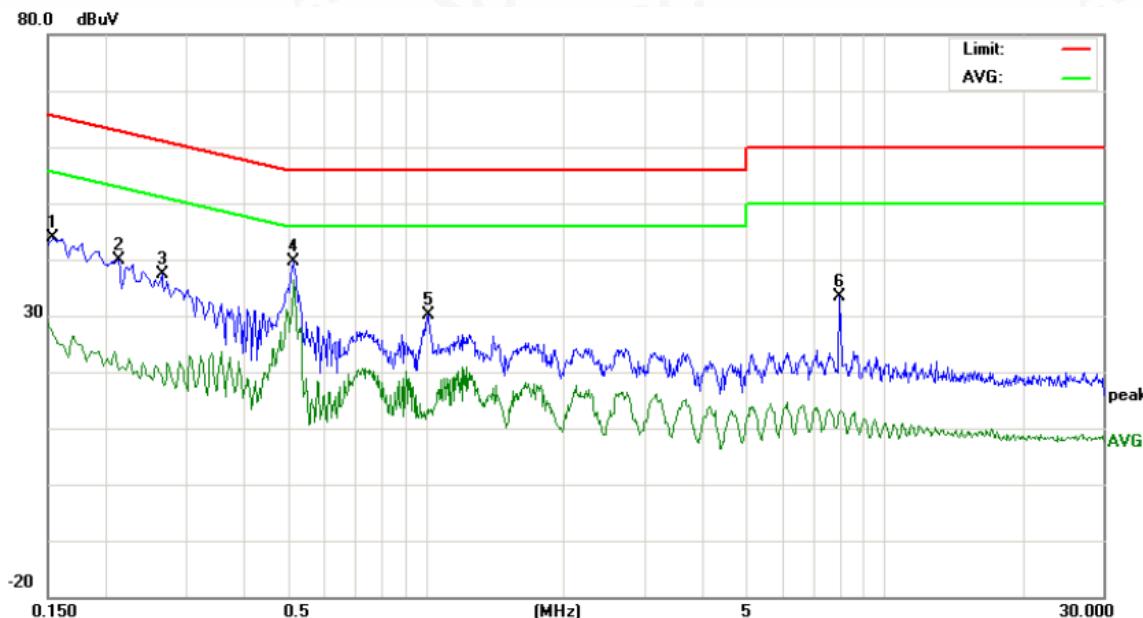
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Line Conducted Emission Test Line 2-N



No.	Freq. (MHz)	Reading_Level (dBuV)			Correct Factor	Measurement (dBuV)			Limit (dBuV)		Margin (dB)		P/F
		Peak	QP	AVG		Peak	QP	AVG	QP	AVG	QP	AVG	
1	0.1539	30.99	26.32	10.73	12.79	43.78	39.11	23.52	65.78	55.78	-26.67	-32.26	P
2	0.2140	26.93	23.53	7.57	12.89	39.82	36.42	20.46	63.04	53.04	-26.62	-32.58	P
3	0.2660	24.33	18.69	4.88	12.97	37.30	31.66	17.85	61.24	51.24	-29.58	-33.39	P
4	0.5140	25.87	24.31	22.44	13.75	39.62	38.06	36.19	56.00	46.00	-17.94	-9.81	P
5	1.0180	16.38	7.92	-1.44	13.81	30.19	21.73	12.37	56.00	46.00	-34.27	-33.63	P
6	8.0060	19.89	3.00	-1.90	13.46	33.35	16.46	11.56	60.00	50.00	-43.54	-38.44	P

RESULT: PASS

Note: All the test modes had been tested, the mode 2 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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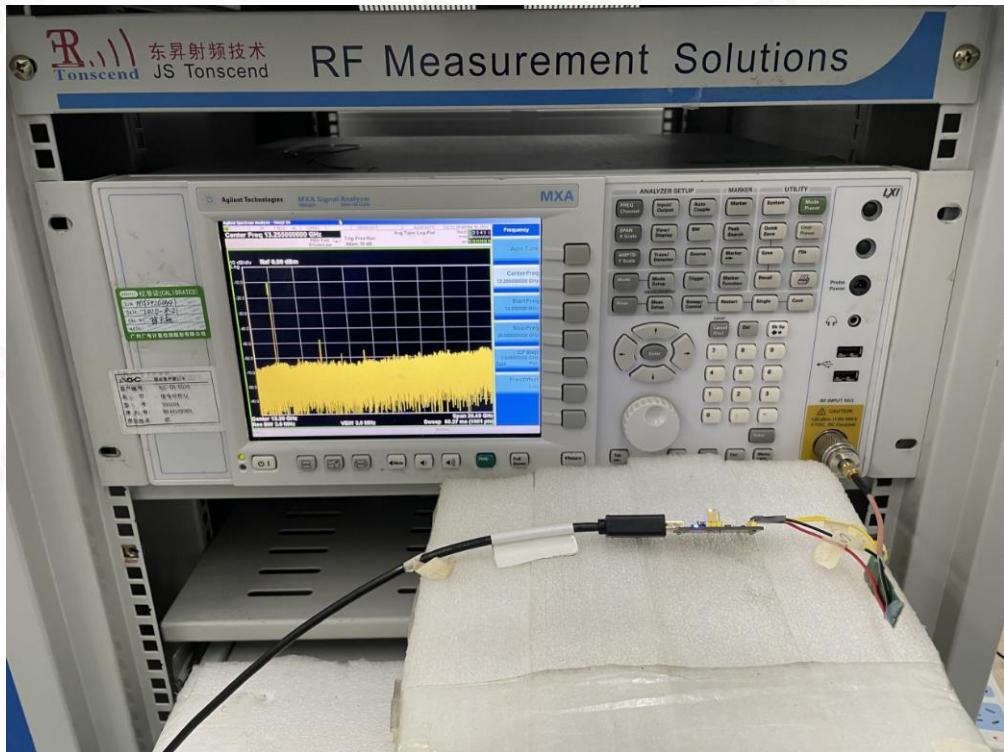
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CONDUCTED EMISSION TEST SETUP



CONDUCTED TEST SETUP



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APPENDIX B: PHOTOGRAPHS OF EUT
EXTERNAL VIEW-1 OF EUT

EXTERNAL VIEW-2 OF EUT



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EXTERNAL VIEW-3 OF EUT



EXTERNAL VIEW-4 OF EUT



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EXTERNAL VIEW-5 OF EUT



EXTERNAL VIEW-6 OF EUT



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EXTERNAL VIEW-7 OF EUT



INTERNAL VIEW-1 OF EUT



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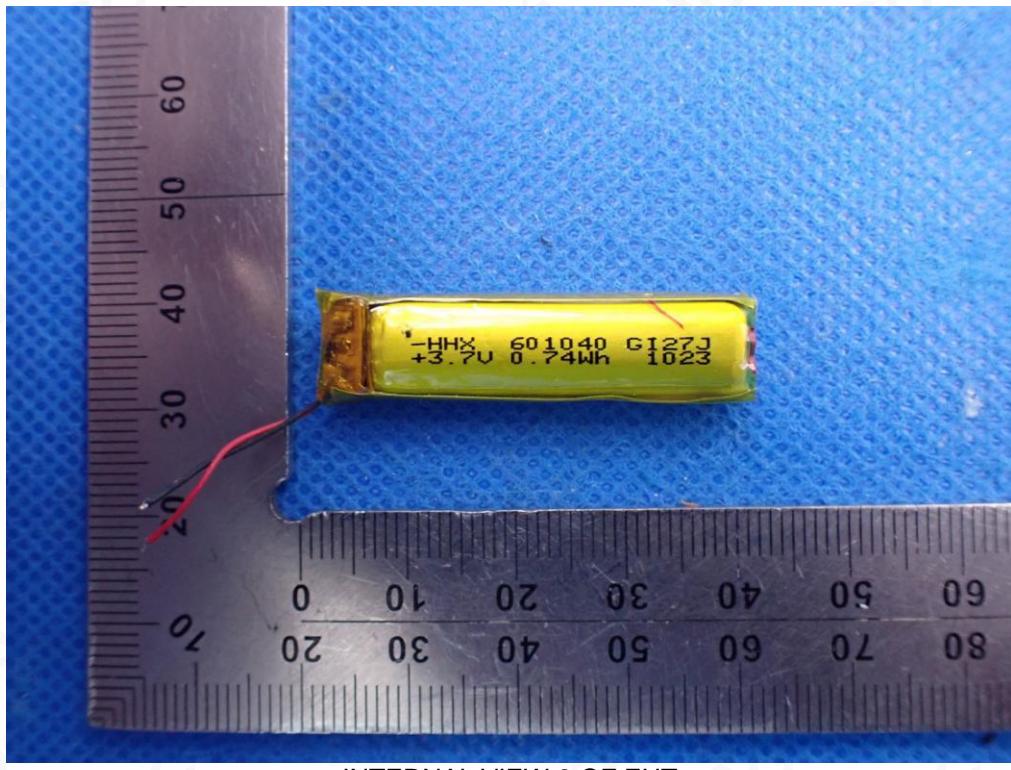
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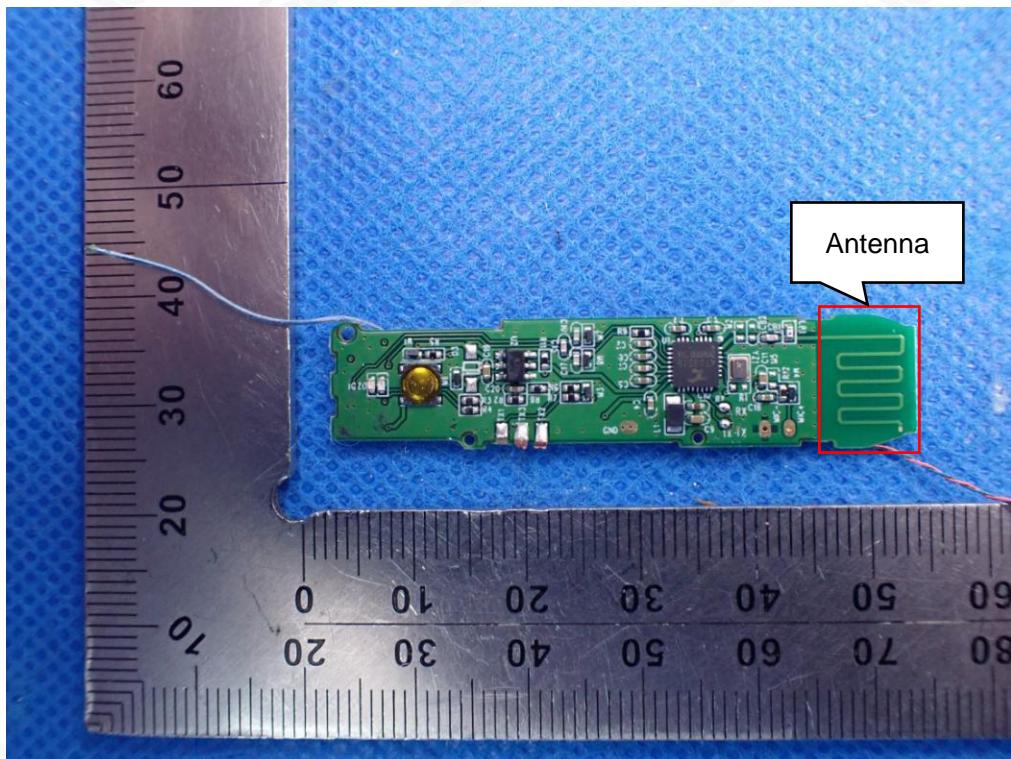
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INTERNAL VIEW-2 OF EUT



INTERNAL VIEW-3 OF EUT



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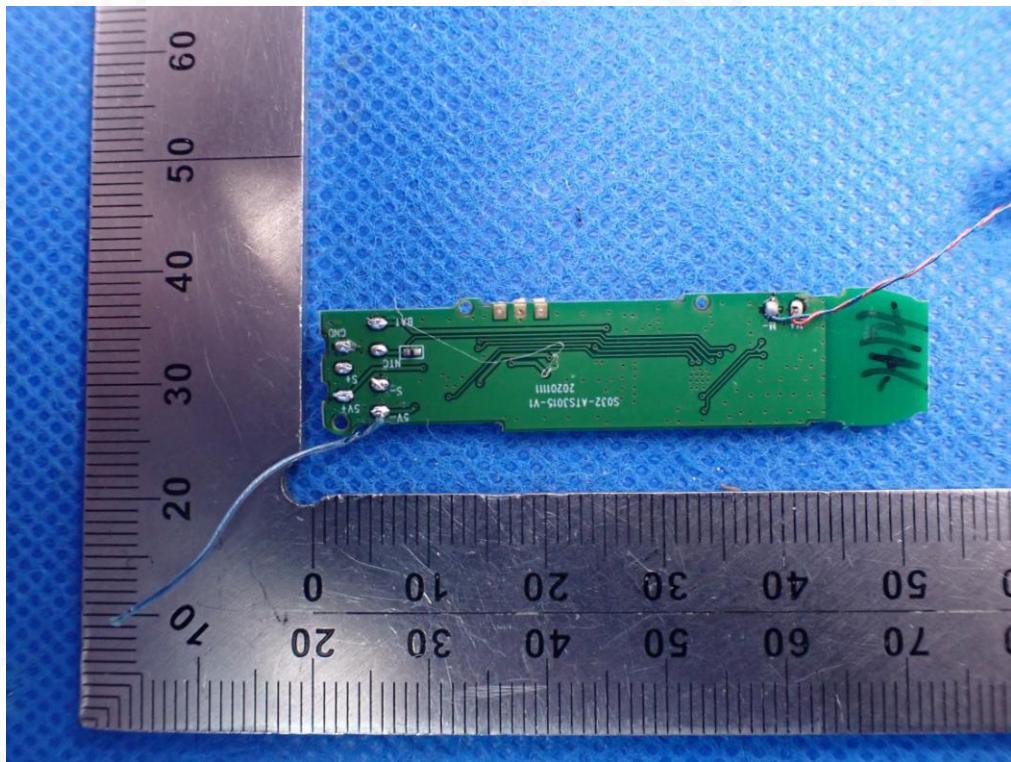
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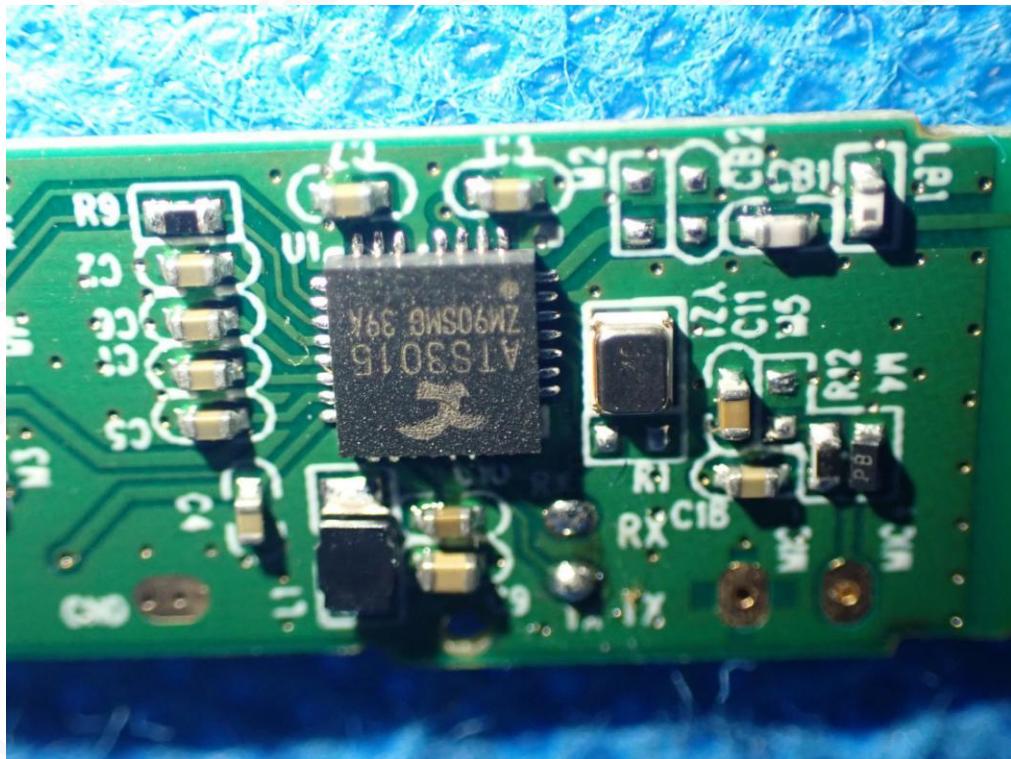
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INTERNAL VIEW-4 OF EUT



INTERNAL VIEW-5 OF EUT



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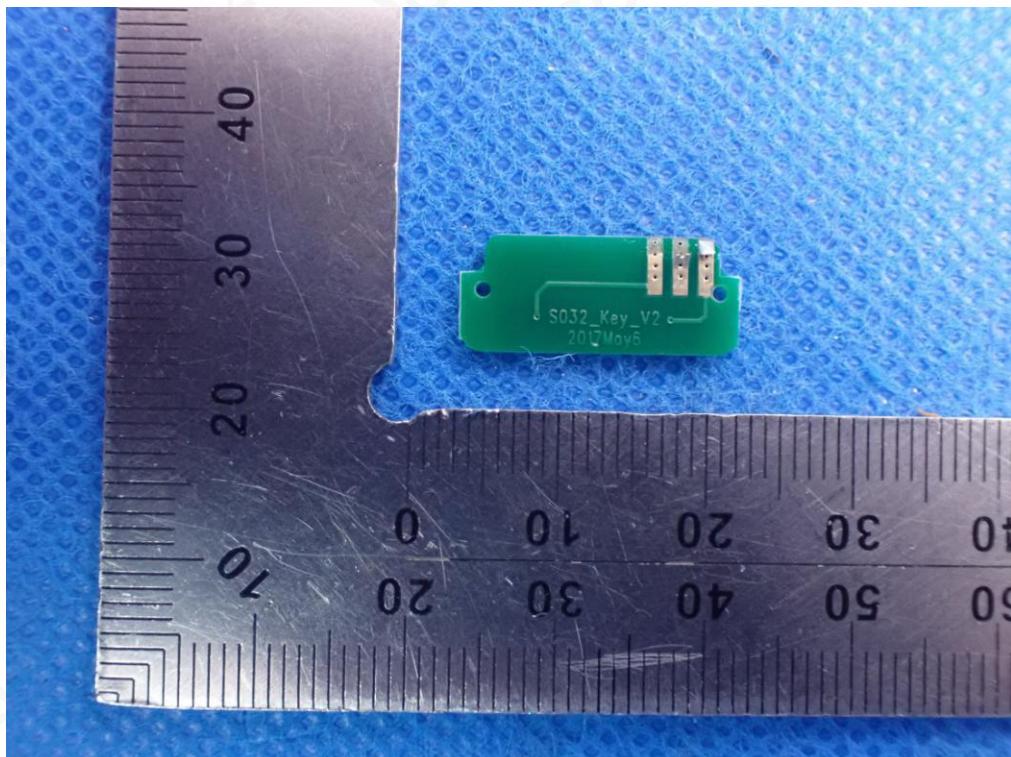
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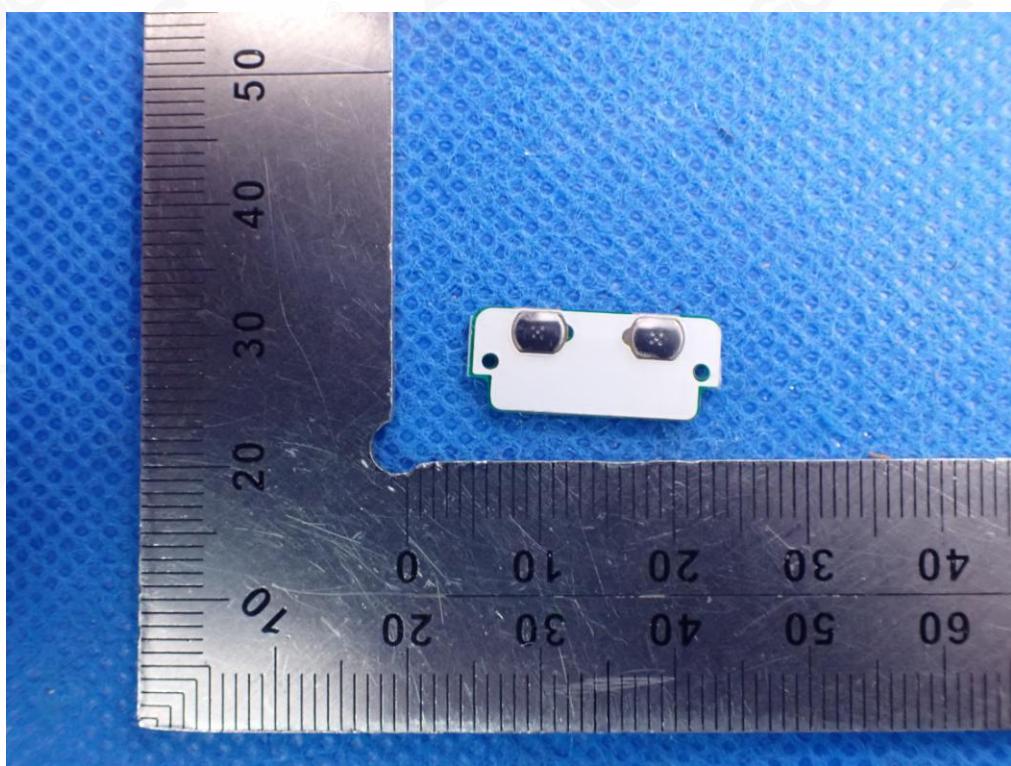
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INTERNAL VIEW-6 OF EUT



INTERNAL VIEW-7 OF EUT

**----END OF REPORT----**

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5. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
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9. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.
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