

11.3. LIMITS AND MEASUREMENT RESULT

15.209 Limit in the below table has to be followed

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

Note: All modes were tested For restricted band radiated emission,
the test records reported below are the worst result compared to other modes.

11.4. TEST RESULT

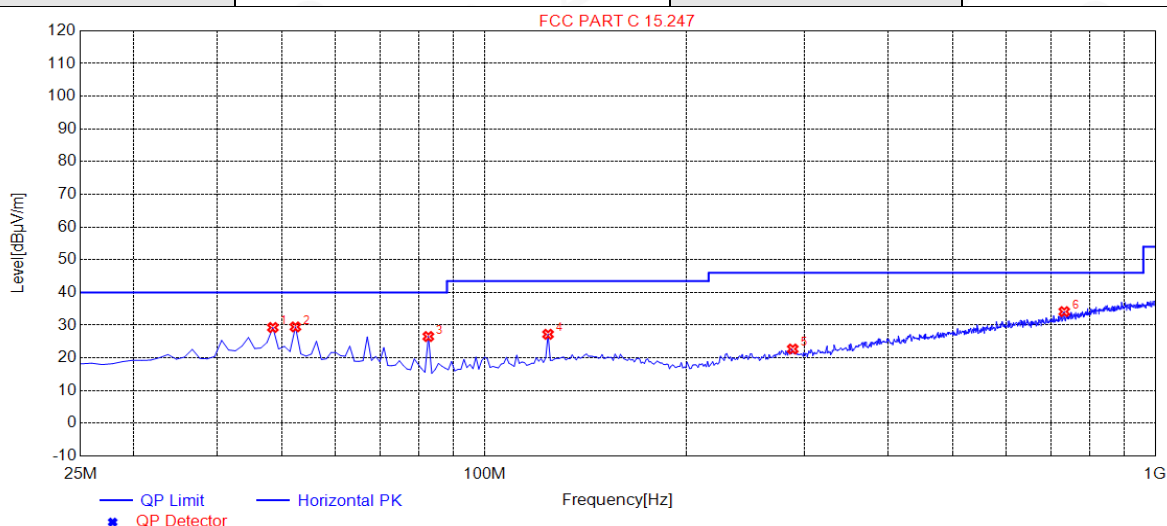
RADIATED EMISSION BELOW 30MHZ

No emission found between lowest internal used/generated frequencies to 30MHz.



RADIATED EMISSION BELOW 1GHZ

EUT	smart scale	Model Name	FG1921(LB)
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal

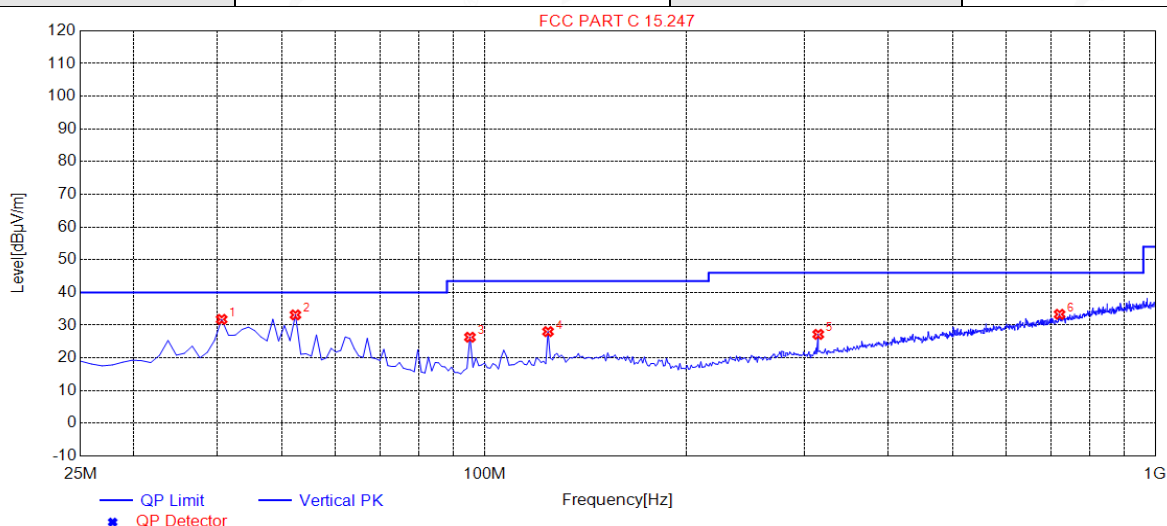


NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	48.4000	29.29	14.71	40.00	10.71	100	101	Horizontal
2	52.3000	29.47	14.50	40.00	10.53	200	46	Horizontal
3	82.5250	26.54	10.18	40.00	13.46	200	282	Horizontal
4	124.4500	27.22	13.77	43.50	16.28	100	1	Horizontal
5	288.2500	22.72	16.16	46.00	23.28	100	61	Horizontal
6	731.8750	34.15	26.76	46.00	11.85	100	308	Horizontal

RESULT: PASS



EUT	smart scale	Model Name	FG1921(LB)
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical



NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	40.6000	31.78	14.92	40.00	8.22	100	331	Vertical
2	52.3000	33.15	14.50	40.00	6.85	100	276	Vertical
3	95.2000	26.33	10.84	43.50	17.17	100	170	Vertical
4	124.4500	28.04	13.77	43.50	15.46	100	178	Vertical
5	314.5750	27.20	16.46	46.00	18.80	100	204	Vertical
6	720.1750	33.33	26.46	46.00	12.67	100	45	Vertical

RESULT: PASS

Note:

- Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.
- All test modes had been tested. The mode 1 is the worst case and recorded in the report.



RADIATED EMISSION ABOVE 1GHZ

EUT	smart scale	Model Name	FG1921(LB)
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4804.000	45.79	0.08	45.87	74	-28.13	peak
4804.000	39.12	0.08	39.2	54	-14.8	AVG
7206.000	40.87	2.21	43.08	74	-30.92	peak
7206.000	35.24	2.21	37.45	54	-16.55	AVG

Remark:

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

EUT	smart scale	Model Name	FG1921(LB)
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4804.000	44.71	0.08	44.79	74	-29.21	peak
4804.000	38.61	0.08	38.69	54	-15.31	AVG
7206.000	38.39	2.21	40.6	74	-33.4	peak
7206.000	32.41	2.21	34.62	54	-19.38	AVG

Remark:

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



EUT	smart scale	Model Name	FG1921(LB)
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Antenna	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4852.000	45.25	0.14	45.39	74	-28.61	peak
4852.000	39.75	0.14	39.89	54	-14.11	AVG
7278.000	39.94	2.36	42.3	74	-31.7	peak
7278.000	33.22	2.36	35.58	54	-18.42	AVG

Remark:

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

EUT	smart scale	Model Name	FG1921(LB)
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Antenna	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4852.000	43.88	0.14	44.02	74	-29.98	peak
4852.000	37.42	0.14	37.56	54	-16.44	AVG
7278.000	39.03	2.36	41.39	74	-32.61	peak
7278.000	32.43	2.36	34.79	54	-19.21	AVG

Remark:

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



EUT	smart scale	Model Name	FG1921(LB)
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4960.000	44.42	0.22	44.64	74	-29.36	peak
4960.000	38.71	0.22	38.93	54	-15.07	AVG
7440.000	39.7	2.64	42.34	74	-31.66	peak
7440.000	33.57	2.64	36.21	54	-17.79	AVG

Remark:

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

EUT	smart scale	Model Name	FG1921(LB)
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4960.000	42.66	0.22	42.88	74	-31.12	peak
4960.000	37.08	0.22	37.3	54	-16.7	AVG
7440.000	37.91	2.64	40.55	74	-33.45	peak
7440.000	31.24	2.64	33.88	54	-20.12	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.

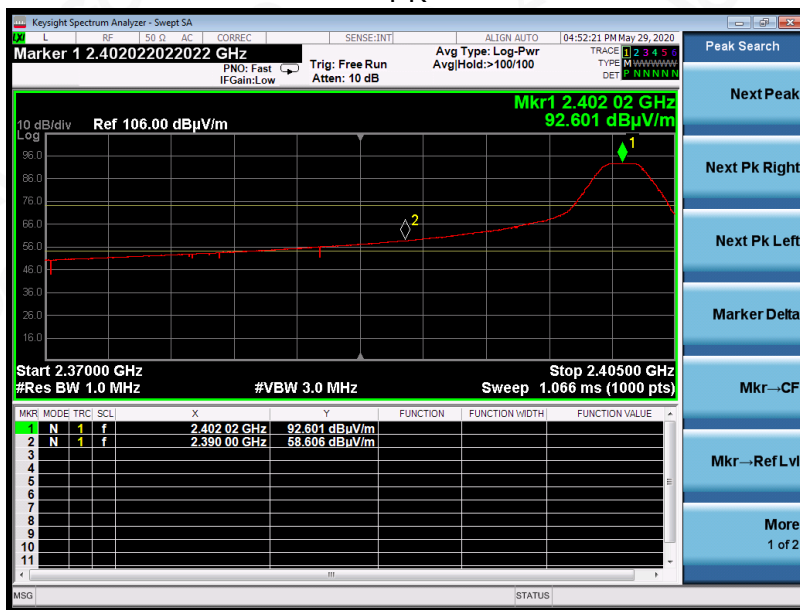
The "Factor" value can be calculated automatically by software of measurement system.



TEST RESULT FOR RESTRICTED BANDS REQUIREMENTS

EUT	smart scale	Model Name	FG1921(LB)
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal

PK



AV

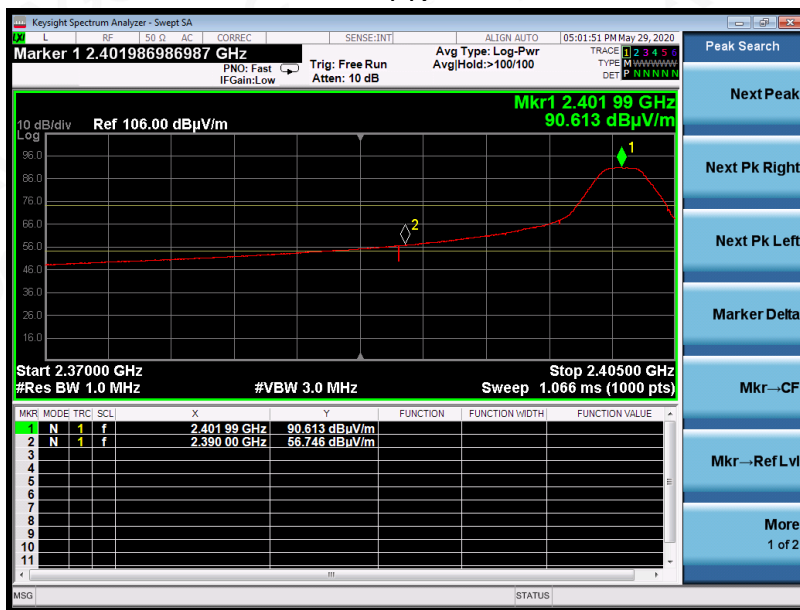


RESULT: PASS



EUT	smart scale	Model Name	FG1921(LB)
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical

PK



AV



RESULT: PASS



EUT	smart scale	Model Name	FG1921(LB)
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Horizontal

PK



AV



RESULT: PASS



EUT	smart scale	Model Name	FG1921(LB)
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Vertical

PK



AV



RESULT: PASS

Note: 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(μV) to represent the Amplitude. Use the F dB(μV/m) to represent the Field Strength. So A=F.



APPENDIX A: PHOTOGRAPHS OF TEST SETUP

RADIATED EMISSION TEST SETUP BELOW 1GHZ



RADIATED EMISSION TEST SETUP ABOVE 1GHZ

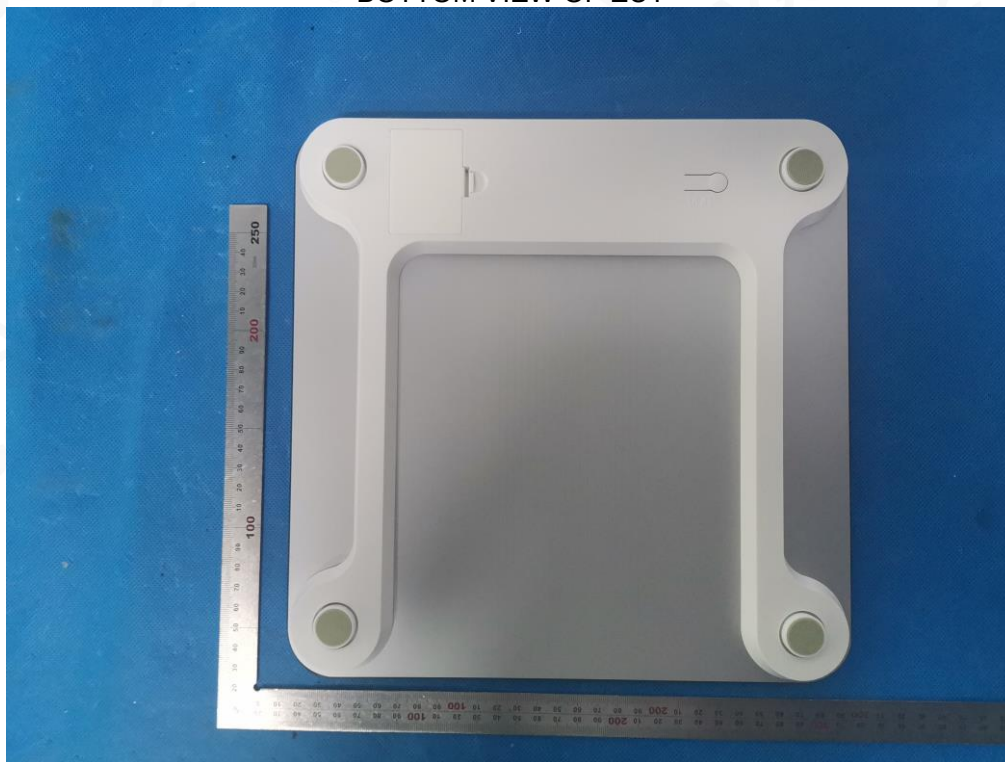


APPENDIX B: PHOTOGRAPHS OF EUT

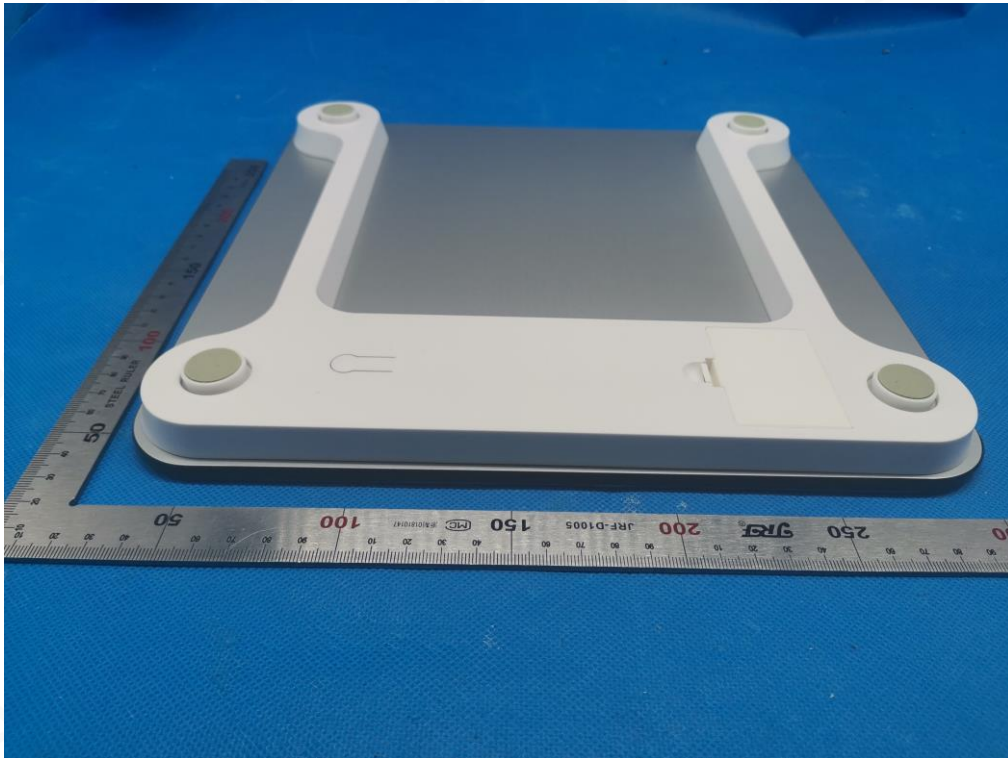
TOP VIEW OF EUT



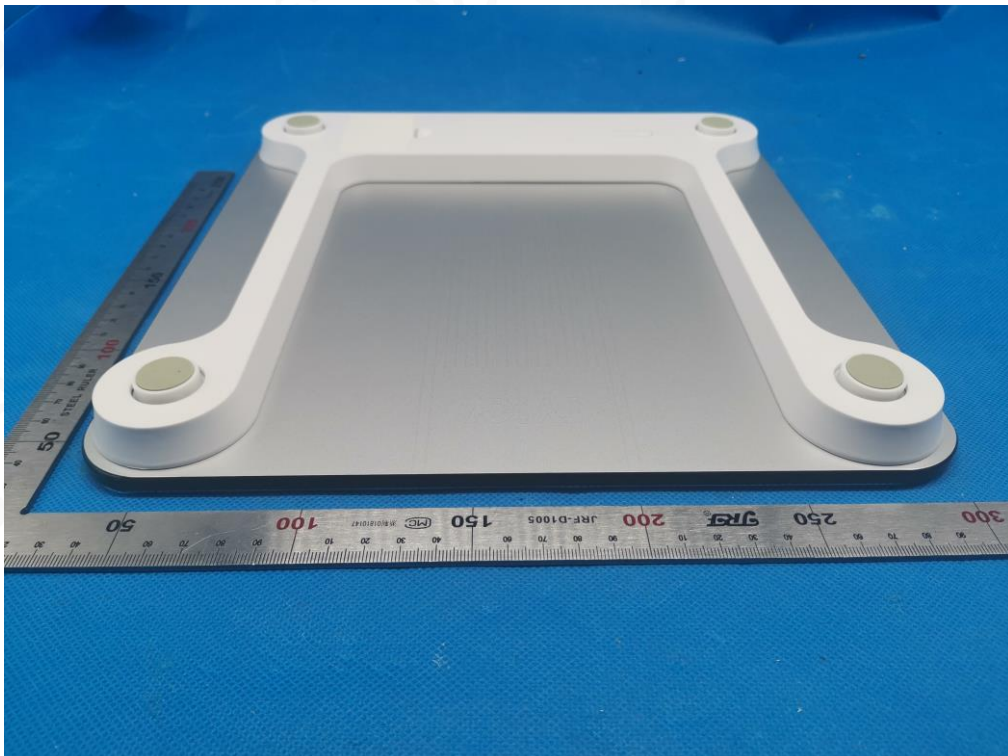
BOTTOM VIEW OF EUT



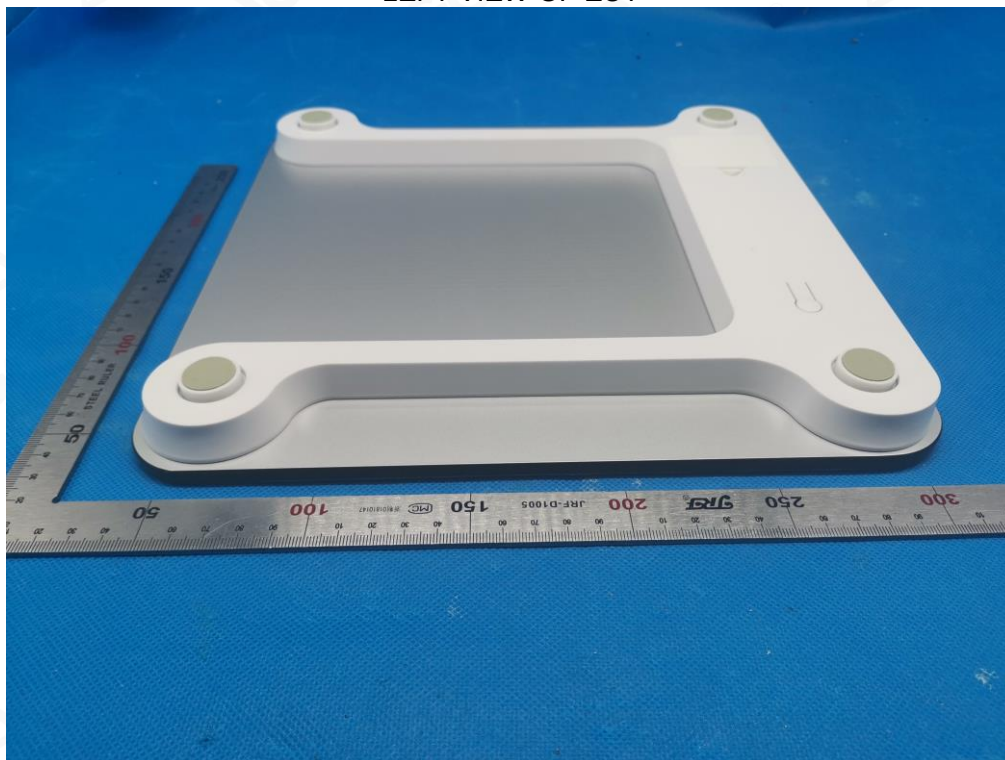
FRONT VIEW OF EUT



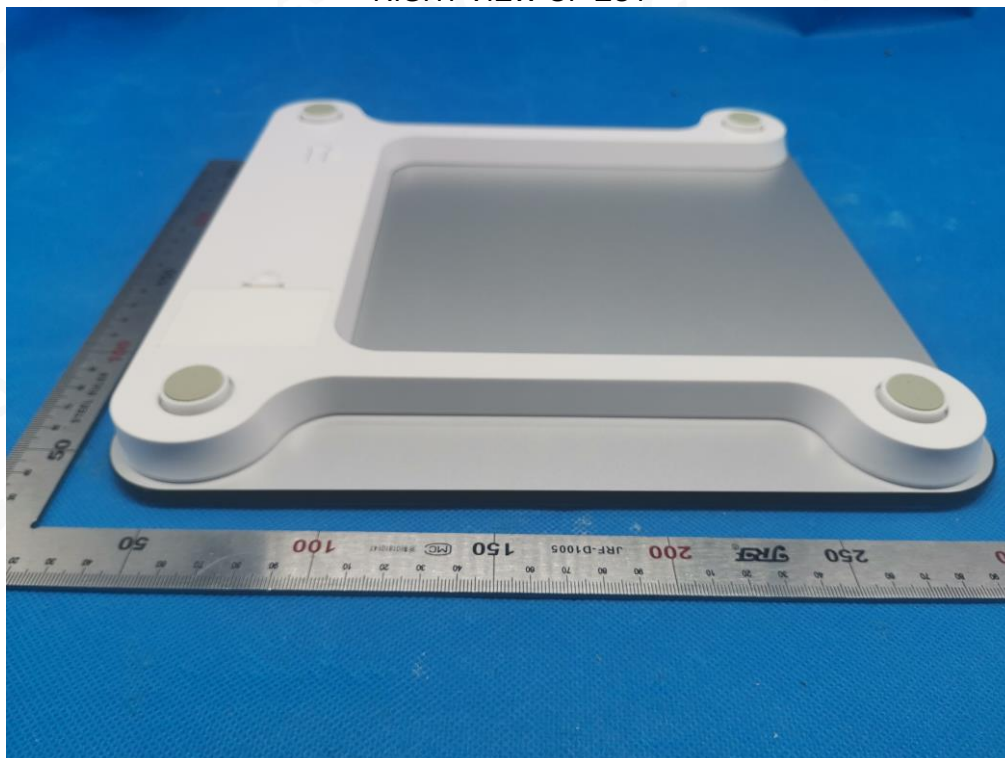
BACK VIEW OF EUT



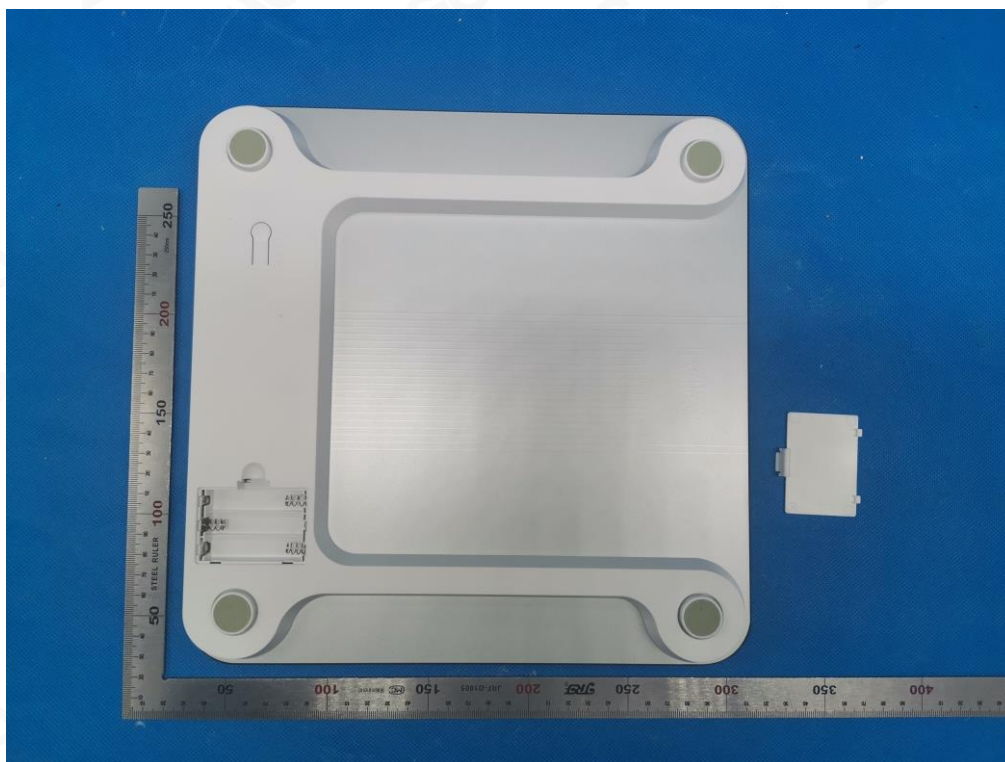
LEFT VIEW OF EUT



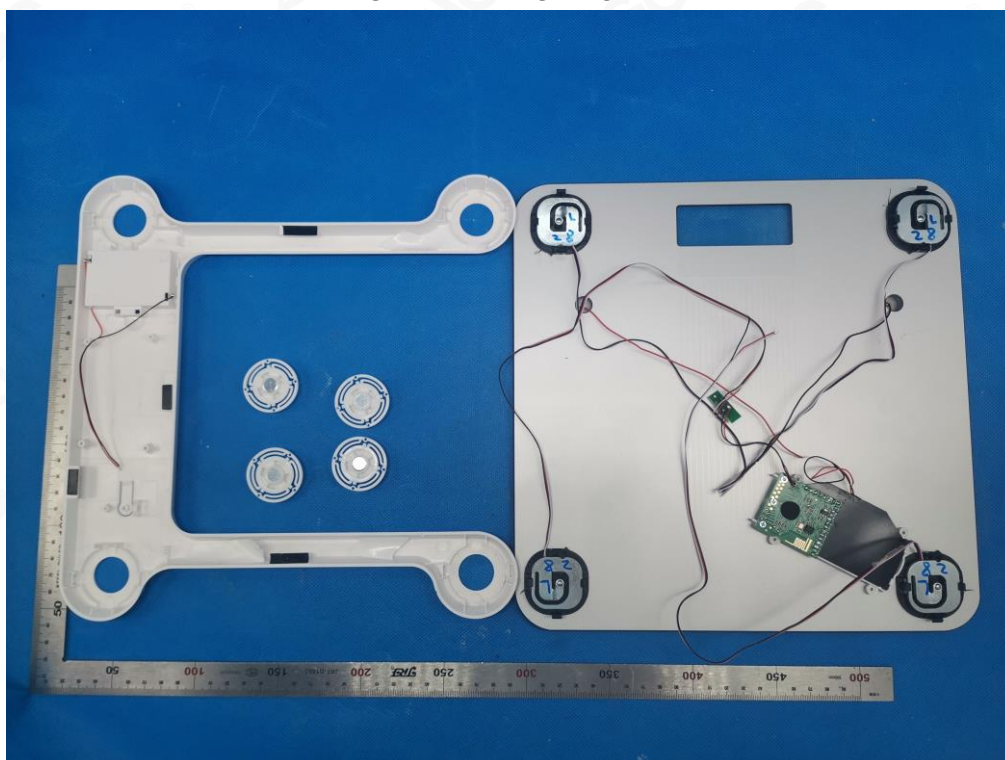
RIGHT VIEW OF EUT



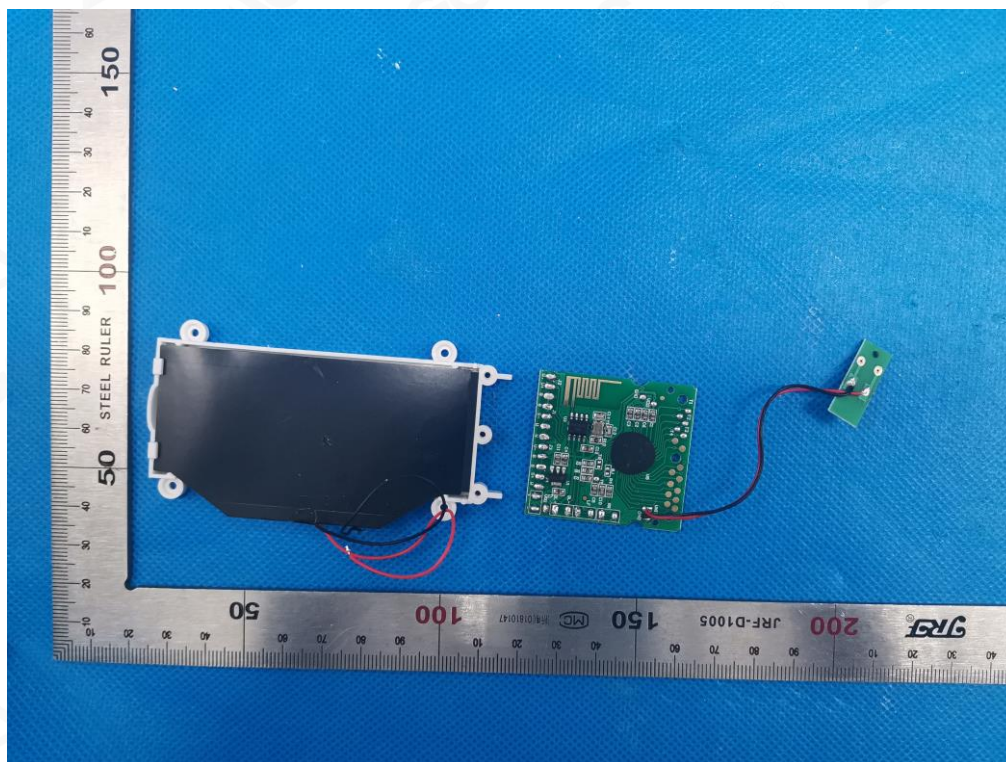
OPEN VIEW OF EUT-1



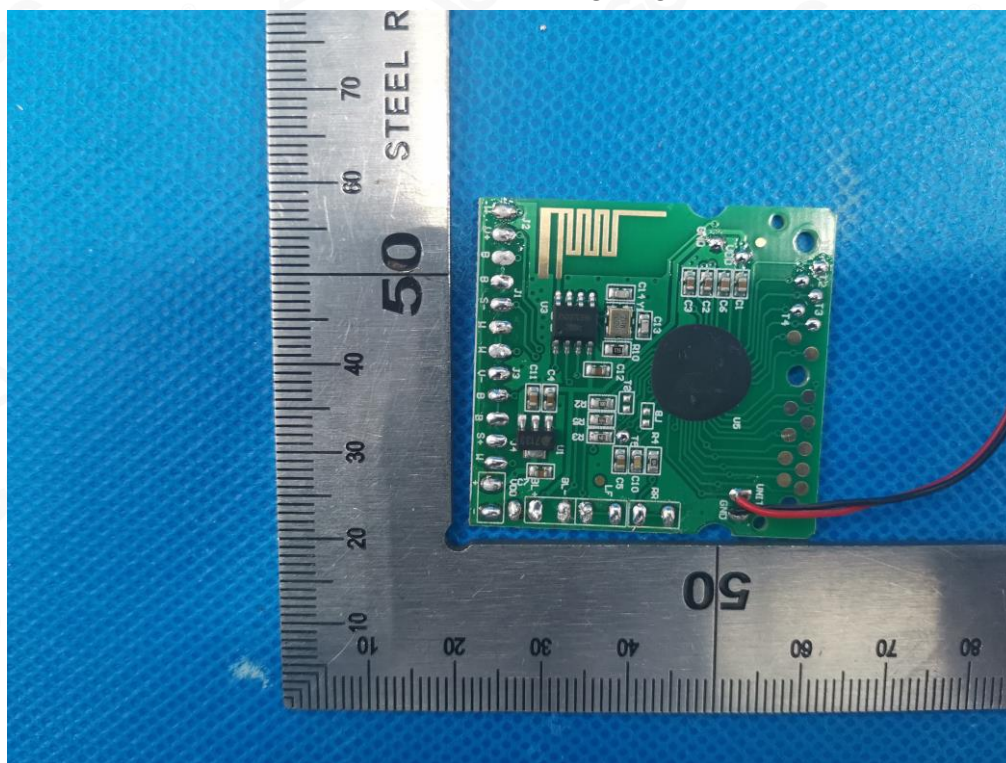
OPEN VIEW OF EUT-2



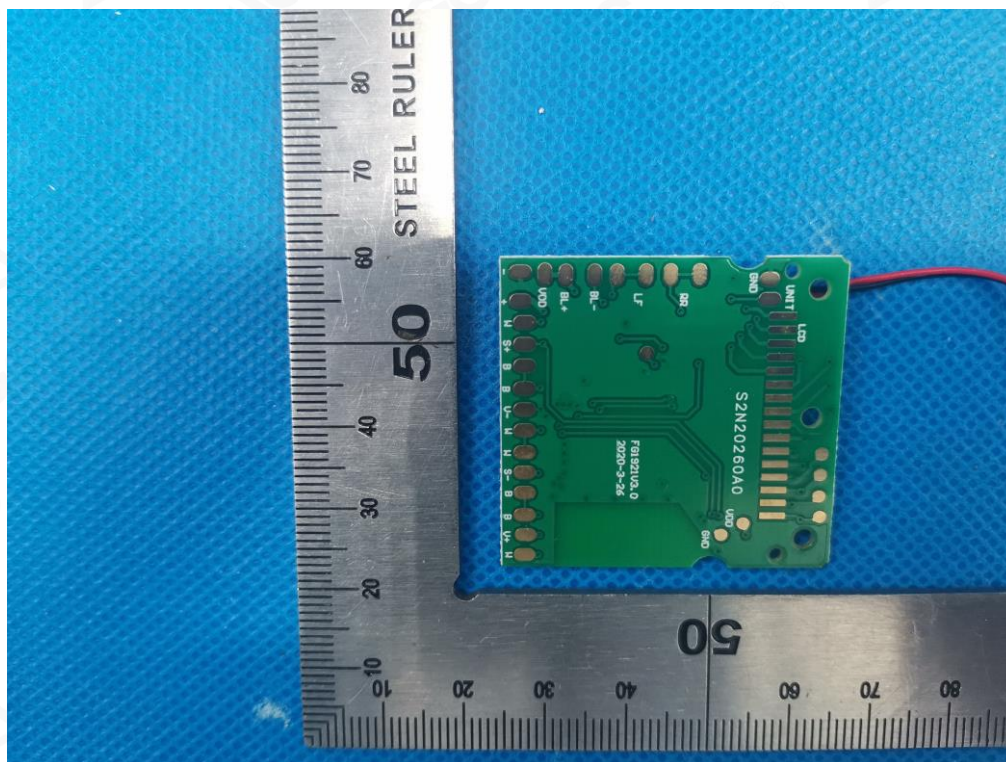
OPEN VIEW OF EUT-3



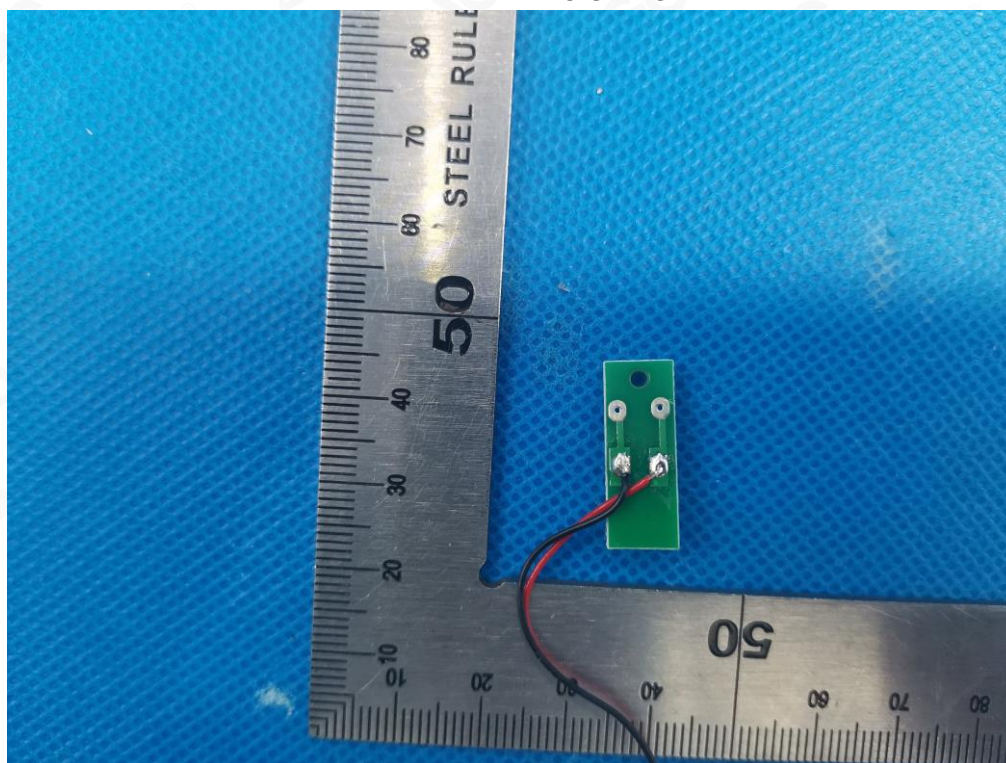
INTERNAL VIEW-1 OF EUT



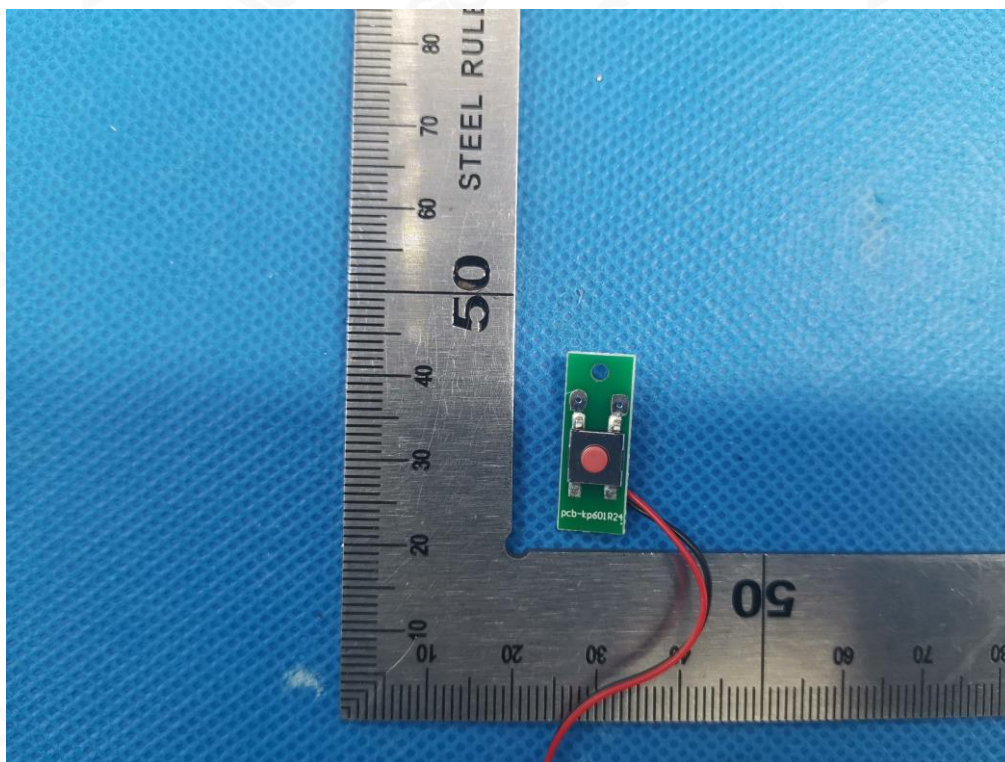
INTERNAL VIEW-2 OF EUT



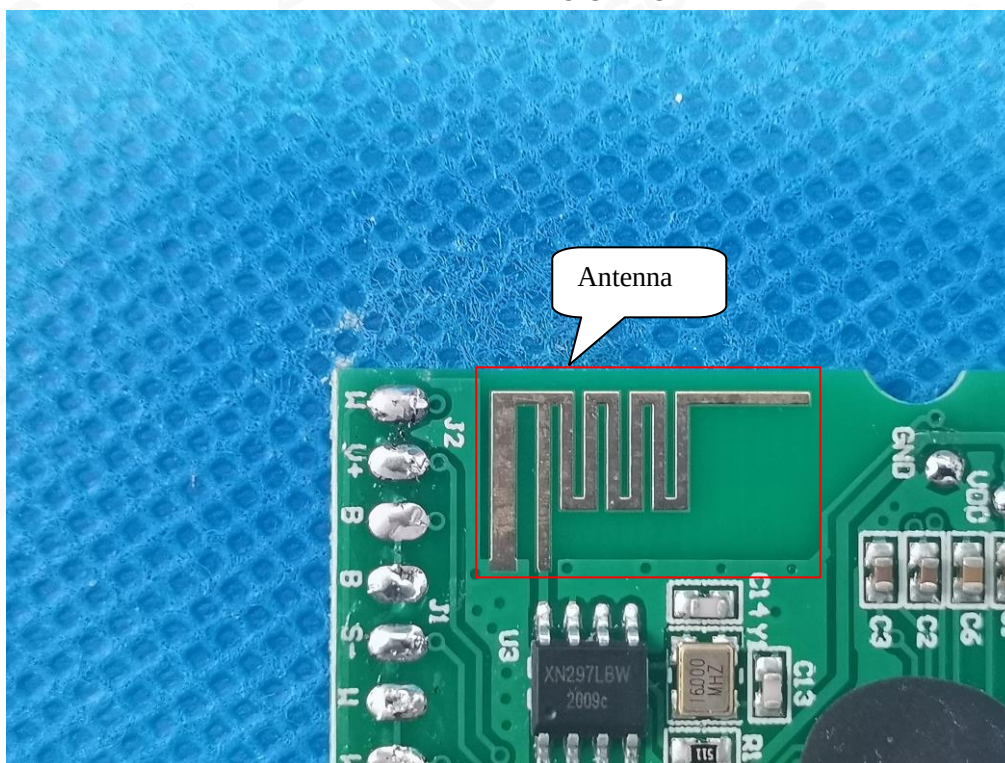
INTERNAL VIEW-3 OF EUT



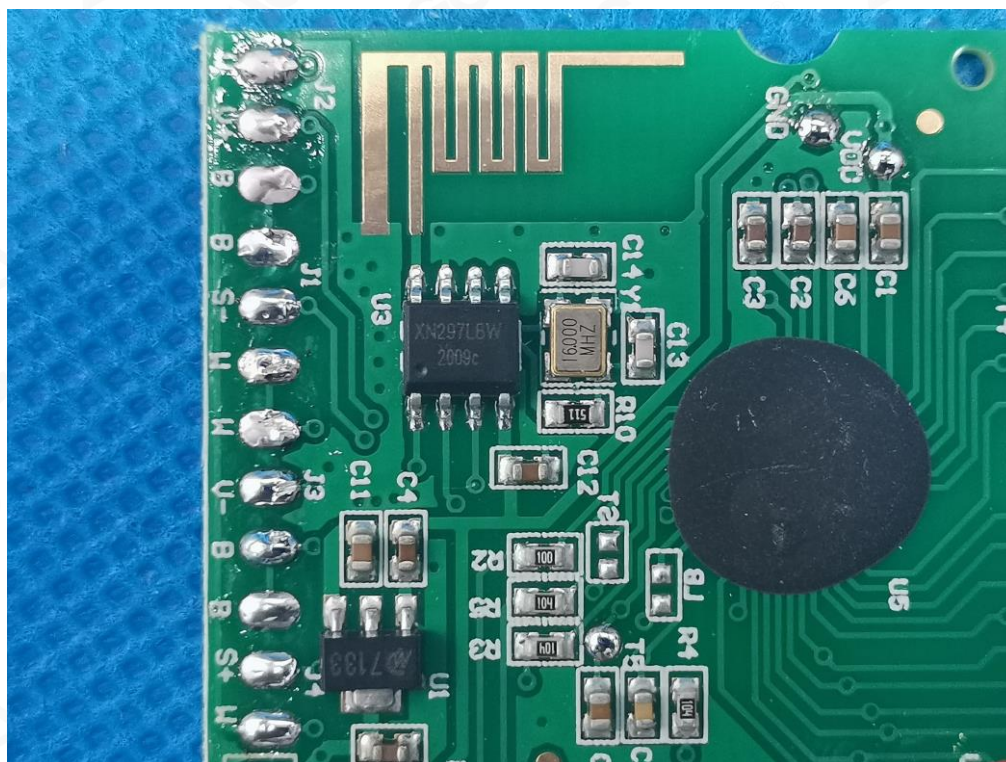
INTERNAL VIEW-4 OF EUT



INTERNAL VIEW-5 OF EUT



INTERNAL VIEW-6 OF EUT



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