10 Power Spectral density

Test Requirement	:	FCC CFR47 Part 15 Section 15.247
Test Method	:	ANSI C63.10:2013
Test Limit	:	Regulation 15.247(f) The power spectral density conducted from the intentional radiator to the antenna due to the digital modulation operation of the hybrid system, with the frequency hopping operation turned off, shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

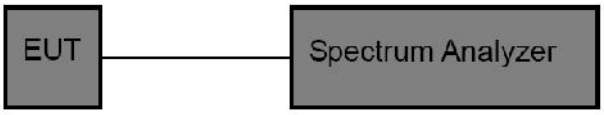
10.1 Test Procedure

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.

2. Set the spectrum analyzer: RBW = 3kHz. VBW = 10kHz , Span = 1.5 times the DTS channel bandwidth(6 dB bandwidth). Sweep = auto; Detector Function = Peak. Trace = Max hold.

3. Allow the trace to stabilize. Use the marker-delta function to determine the separation between the peaks of the adjacent channels. The limit is specified in one of the subparagraphs of this Section Submit this plot.

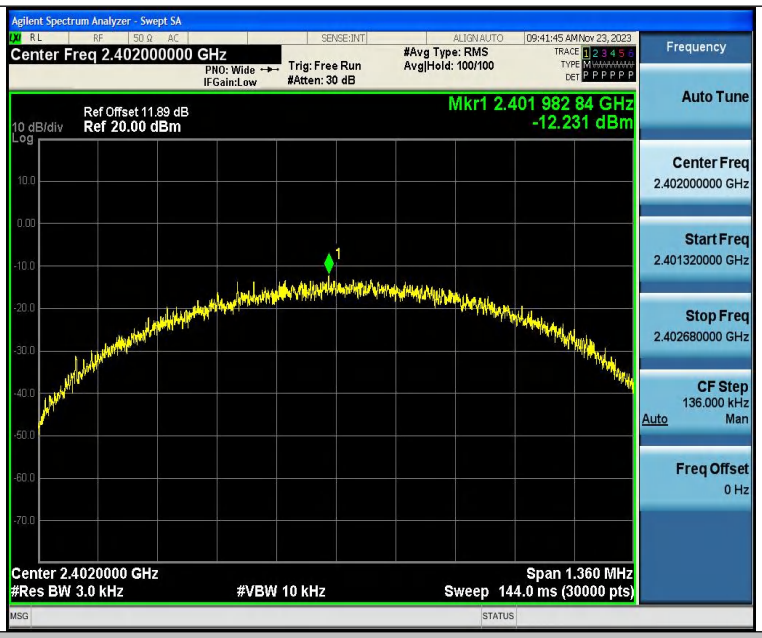
10.2 Test Setup



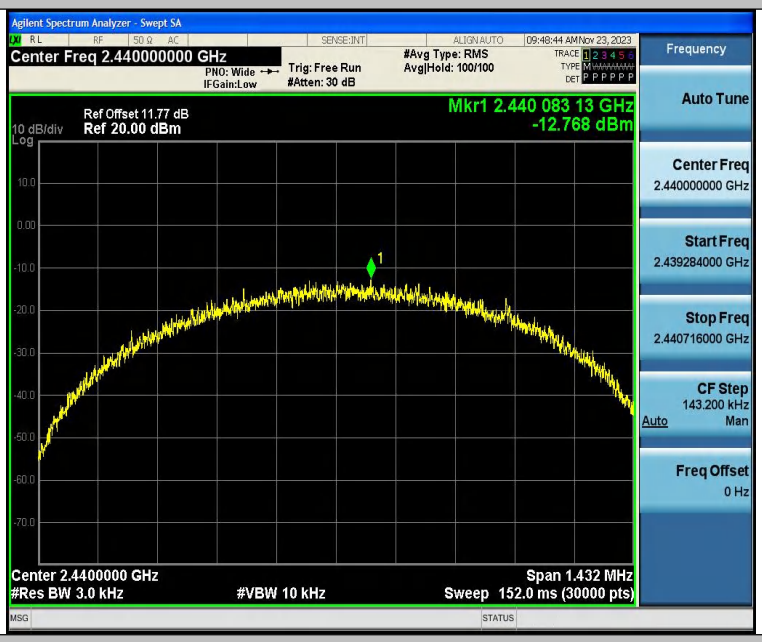
10.3 Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-12.23	≤8.00	PASS
BLE_1M	Ant1	2440	-12.77	≤8.00	PASS
BLE_1M	Ant1	2480	-12.24	≤8.00	PASS

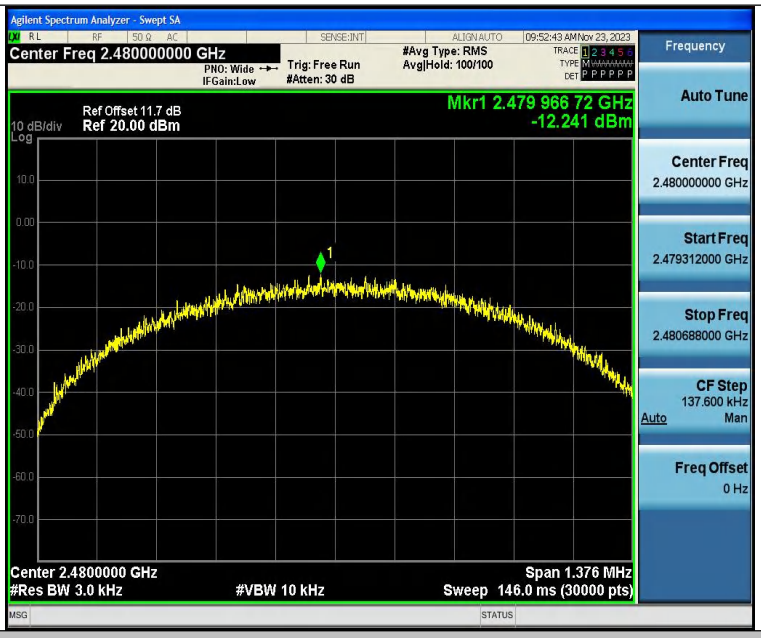
Test Graphs:



BLE_1M-Ant1-2402-PASS



BLE_1M-Ant1-2440-PASS



BLE_1M-Ant1-2480-PASS

11 Antenna Application

11.1 Antenna Requirement

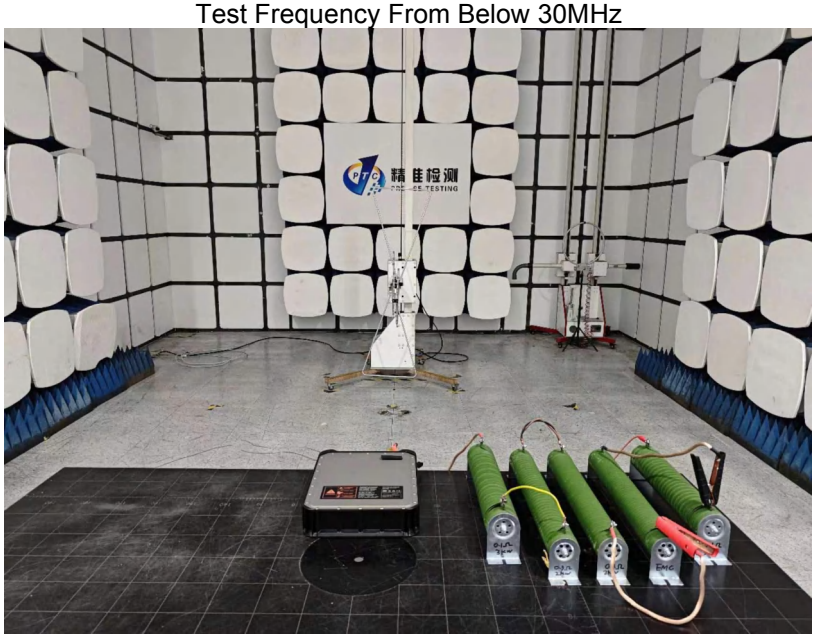
For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

11.2 Result

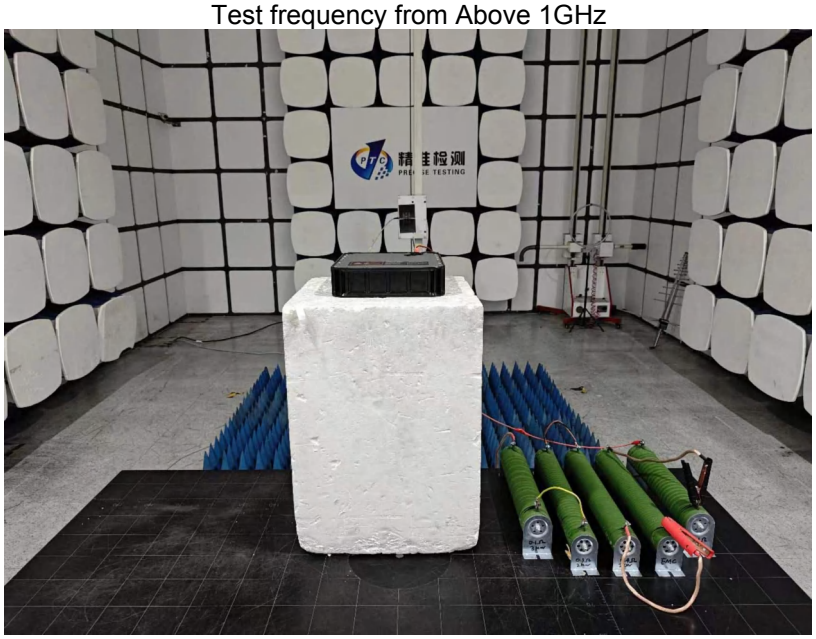
The EUT'S antenna, permanent attached antenna, is internal PCB antenna. The antenna's gain is -4.00 dBi and meets the requirement.

12 Test Setup

Radiated Spurious Emissions
Test Frequency From Below 30MHz

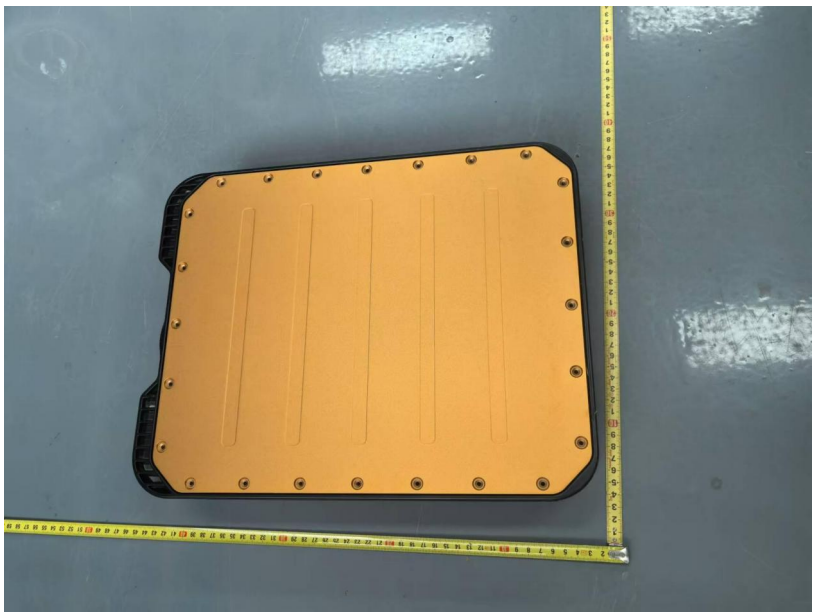


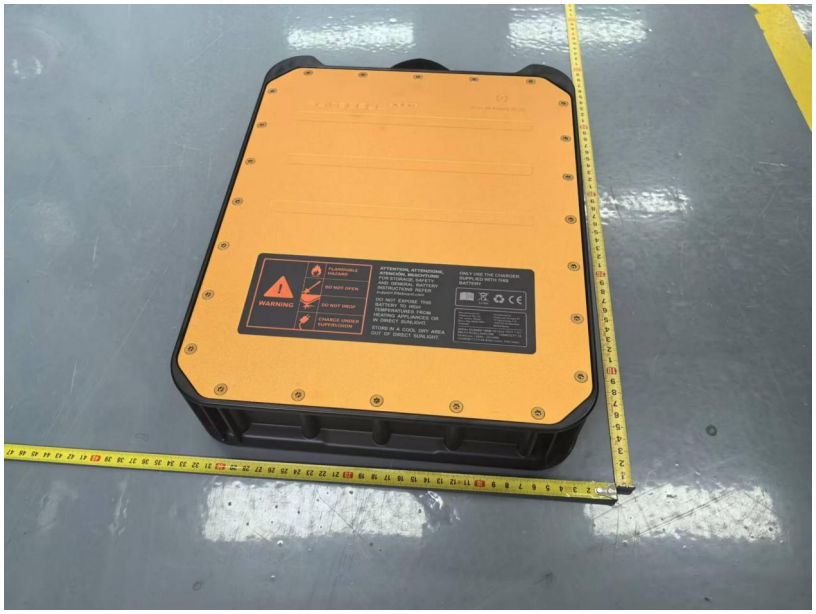
Test frequency from Above 1GHz

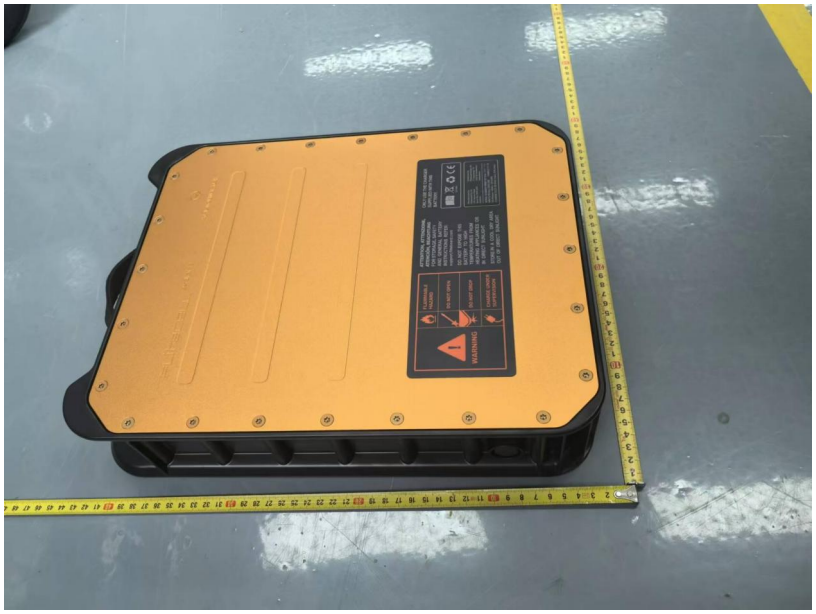


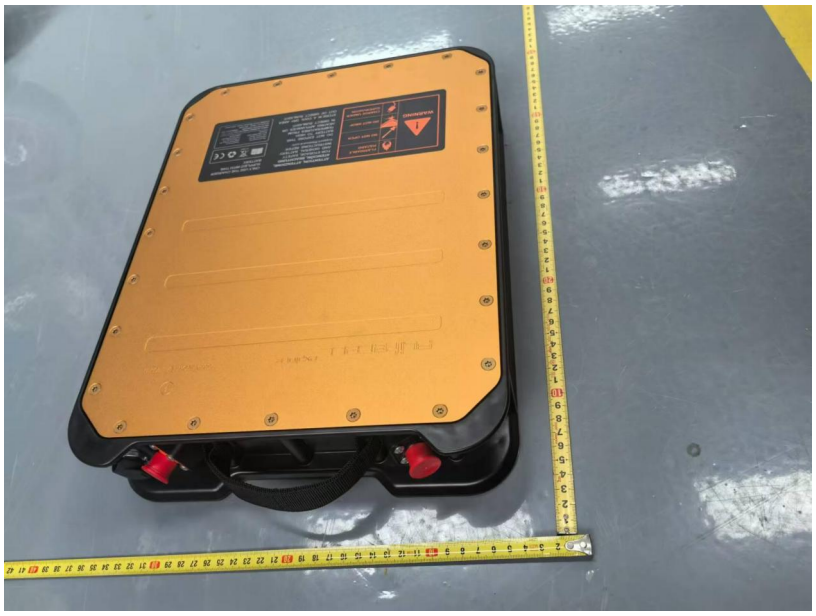
13 EUT Photos

MN FLITECELL EXPLORE：






WARNING

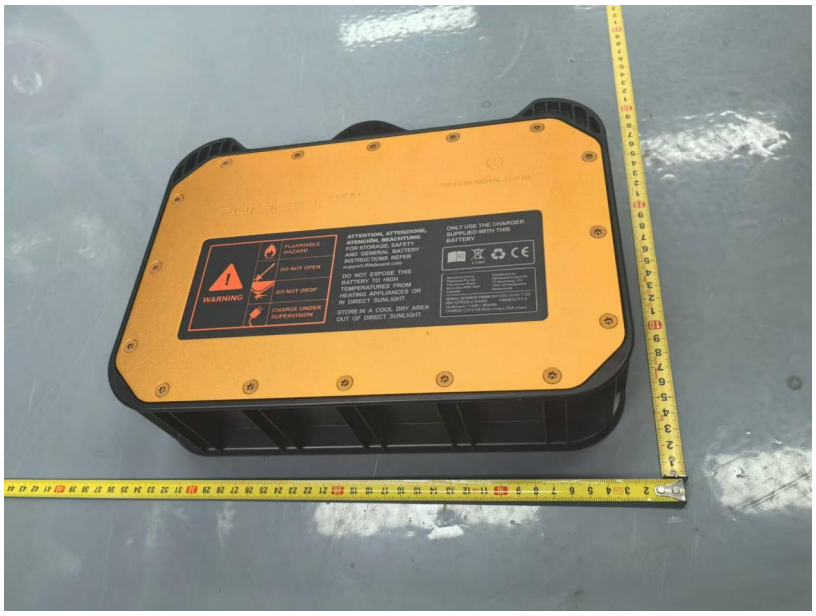


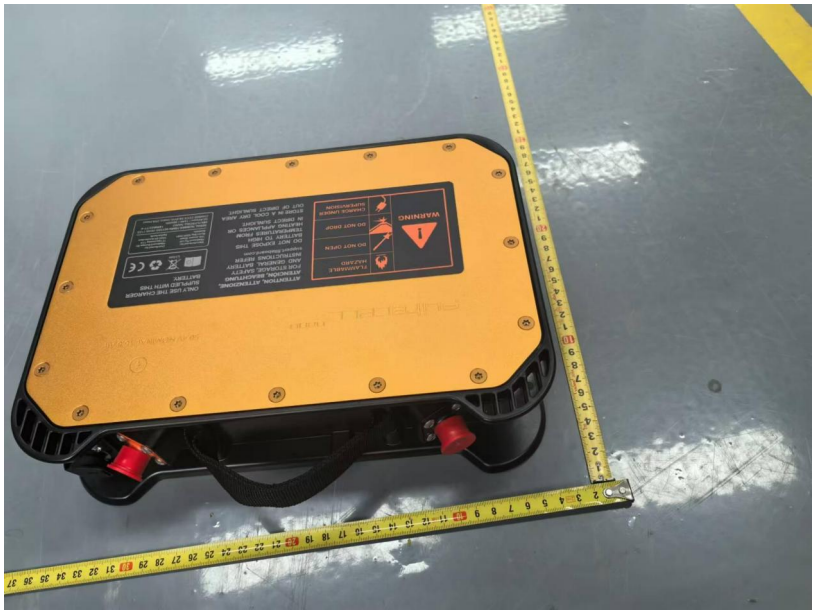
MN FLITECELL NANO:

WARNING
FLAMMABLE HAZARD
DO NOT OPEN
DO NOT DROP
CHARGE UNDER SUPERVISION
ATTENTION, ATTENZIONE, ATENCION, ACHTUNG, ATTENTION, ATTENTION
FOR STANDARD, SAFETY AND CORRECT BATTERY INSTRUCTIONS REFER
DO NOT EXPOSE THE BATTERY TO HIGH TEMPERATURES FROM HEATING APPLIANCES OR IN DIRECT SUNLIGHT
STORE IN A COOL DRY AREA OUT OF DIRECT SUNLIGHT
ONLY USE THE CHARGER SUPPLIED WITH THIS BATTERY

WARNING
FLAMMABLE
DO NOT OPEN
DO NOT STORE
DO NOT EXPOSE TO
TEMPERATURES FROM
-20°C TO 45°C
DO NOT EXPOSE TO
WATER OR MOISTURE
DO NOT SHORT
CIRCUIT
ONLY USE THE CHARGER
SUPPLIED WITH THIS
BATTERY
FOR INDOOR USE
FOR STORAGE SAFETY
REFER TO THE
INSTRUCTIONS BEFORE
USE
DO NOT DISPOSE THIS
BATTERY WITH
HOUSEHOLD WASTE OR
IN DIRECT SUNLIGHT OR
OUTSIDE A COOL DRY AREA
OUTSIDE THE DIRECT
SUNLIGHT

WARNING
FLAMMABLE
DO NOT OPEN
DO NOT STORE
DO NOT EXPOSE TO
TEMPERATURES FROM
-20°C TO 45°C
DO NOT EXPOSE TO
WATER OR MOISTURE
DO NOT SHORT
CIRCUIT
ONLY USE THE CHARGER
SUPPLIED WITH THIS
BATTERY
FOR INDOOR USE
FOR STORAGE SAFETY
REFER TO THE
INSTRUCTIONS BEFORE
USE
DO NOT DISPOSE THIS
BATTERY WITH
HOUSEHOLD WASTE OR
IN DIRECT SUNLIGHT OR
OUTSIDE A COOL DRY AREA
OUTSIDE THE DIRECT
SUNLIGHT

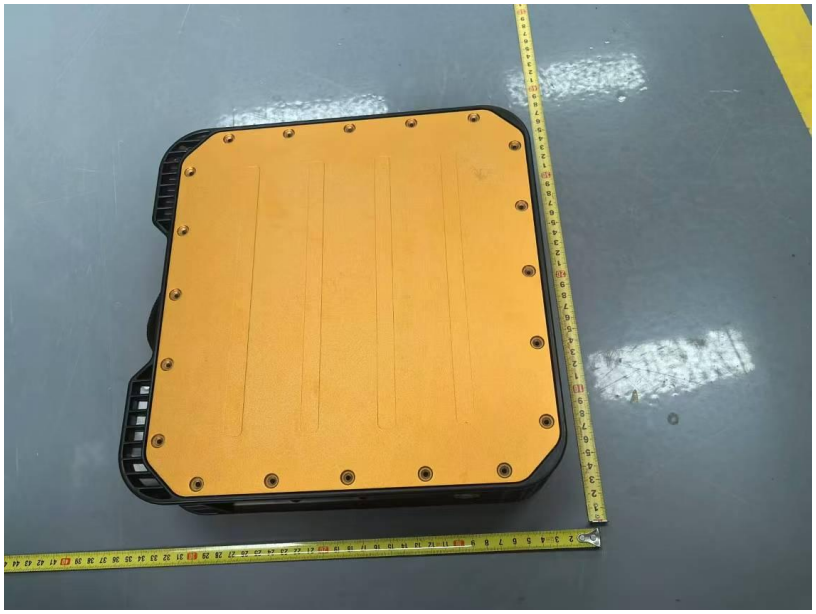




MN FLITECELL SPORT:

WARNING
FLAMMABLE HAZARD
DO NOT OPEN
DO NOT DROP
CHARGE UNDER SUPERVISION
ATTENTION, ATTENZIONE, ATENCIÓN, BEACHTUNG FOR STORAGE, SAFETY AND GENERAL BATTERY INSTRUCTIONS REFER
DO NOT EXPOSE THIS BATTERY TO HIGH TEMPERATURES FROM HEATING APPLIANCES OR IN DIRECT SUNLIGHT.
STORE IN A COOL DRY AREA OUT OF DIRECT SUNLIGHT.
ONLY USE THE CHARGER SUPPLIED WITH THIS BATTERY.

WARNING

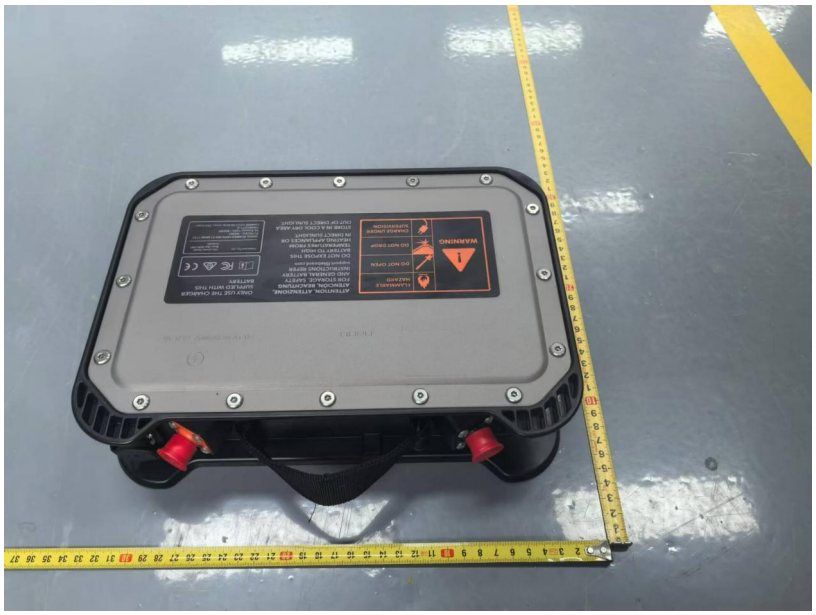


FLITECELL-NANO：

WARNING
FLAMMABLE MATERIAL
DO NOT OPEN
DO NOT DROP
CHARGE UNDER SUPERVISION
ATTENTION, ATTENZIONE, ATTENCIÓN, SEACHTAIN FOR STORAGE SAFETY AND GENERAL BATTERY INSTRUCTIONS REFER
DO NOT EXPOSE THIS BATTERY TO HIGH TEMPERATURES FROM HEATING APPLIANCES OR DIRECT SUNLIGHT
STORE IN A COOL DRY AREA OUT OF DIRECT SUNLIGHT
ONLY USE THE CHARGER SUPPLIED WITH THIS BATTERY.
SO 4V NOMINAL 16.8 Ah

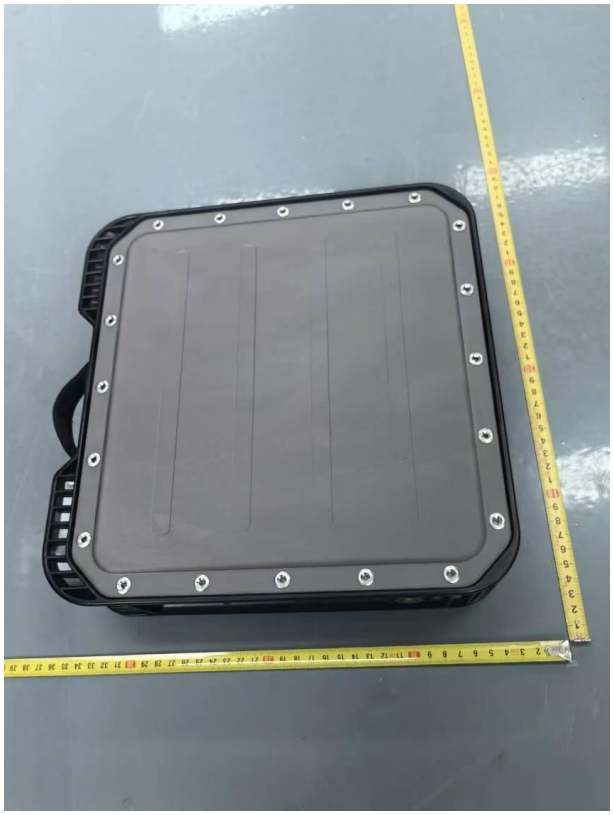
WARNING
FLAMMABLE HAZARD
DO NOT OPEN
DO NOT DROP
CHARGE UNDER SUPERVISION
ATTENTION, ATTENZIONE, ATENCIÓN, BEACHTUNG FOR STORAGE, SAFETY AND GENERAL BATTERY INSTRUCTIONS REFER
DO NOT EXPOSE THIS BATTERY TO HIGH TEMPERATURES FROM HEATING APPLIANCES OR IN DIRECT SUNLIGHT.
STORE IN A COOL DRY AREA OUT OF DIRECT SUNLIGHT.
ONLY USE THE CHARGER SUPPLIED WITH THIS BATTERY.

WARNING



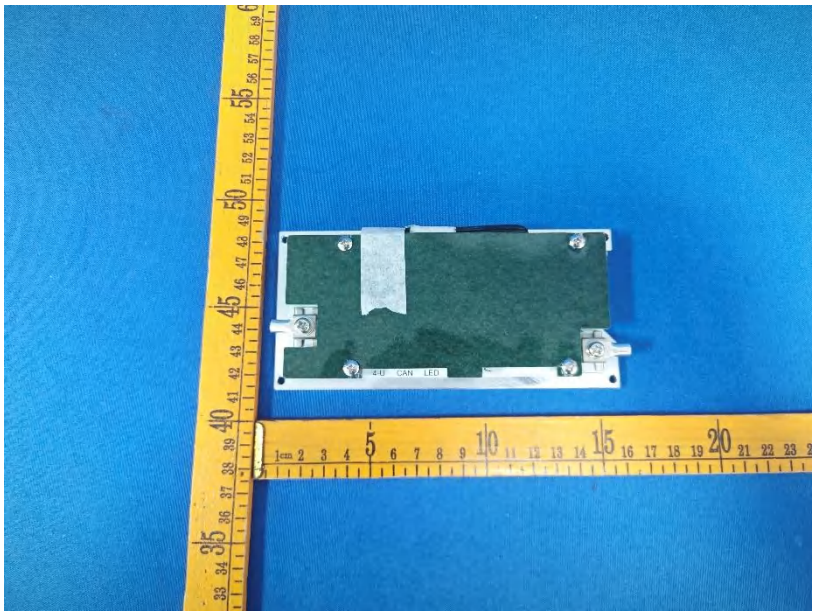
FLITECELL-SPOR :

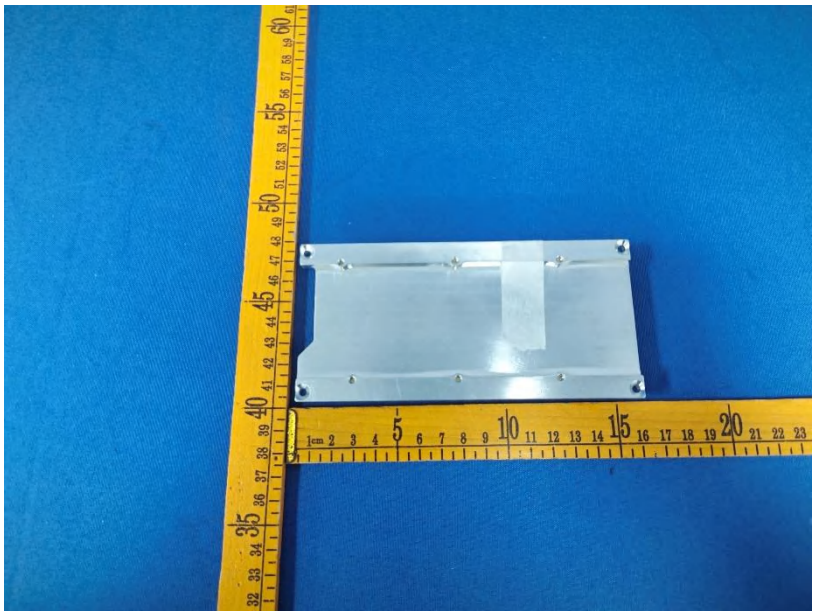
WARNING

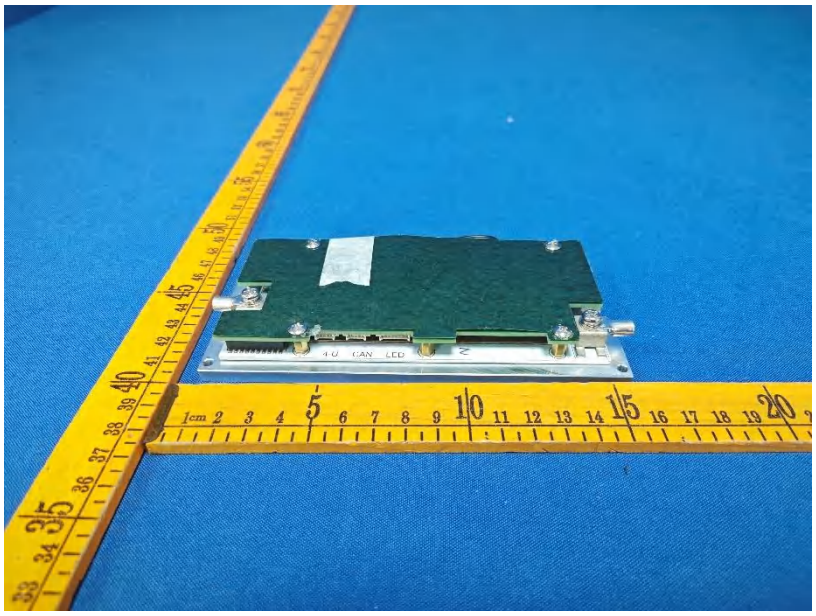


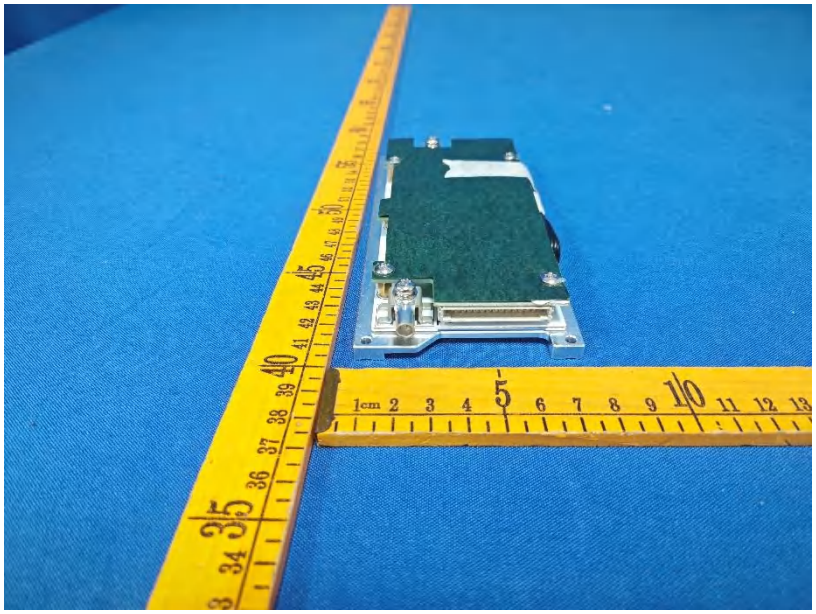
WARNING

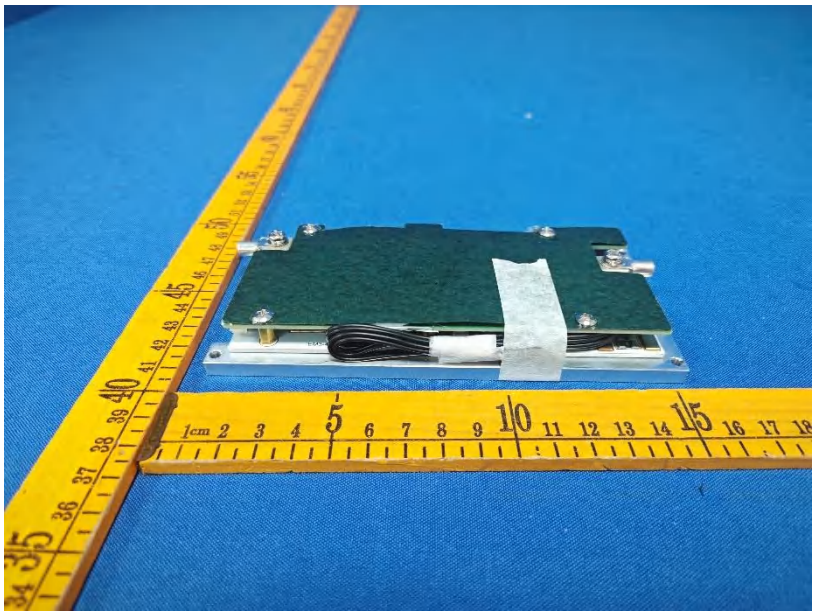
BMS(All models)：

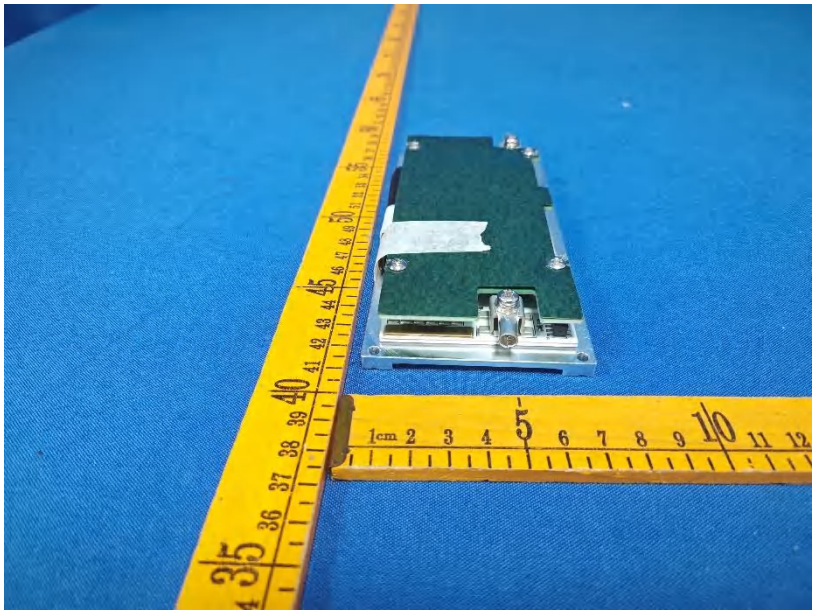


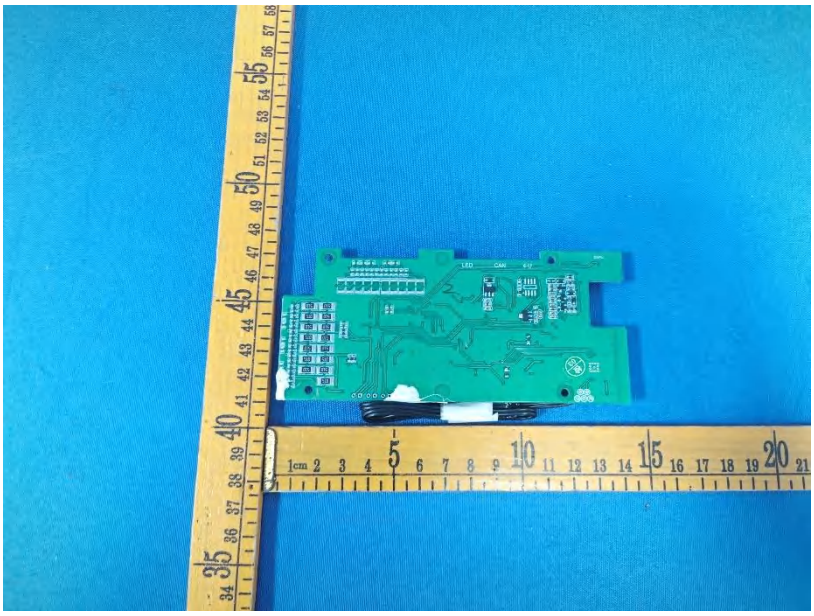


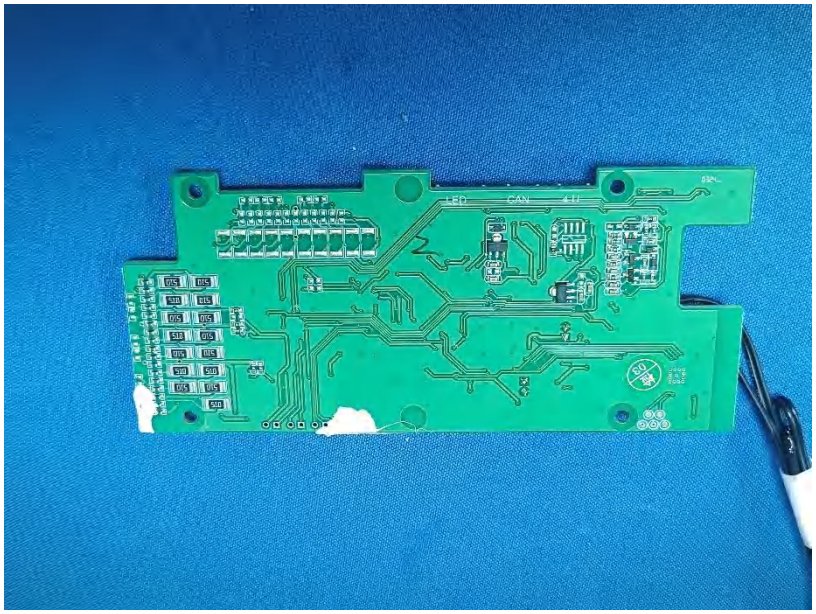


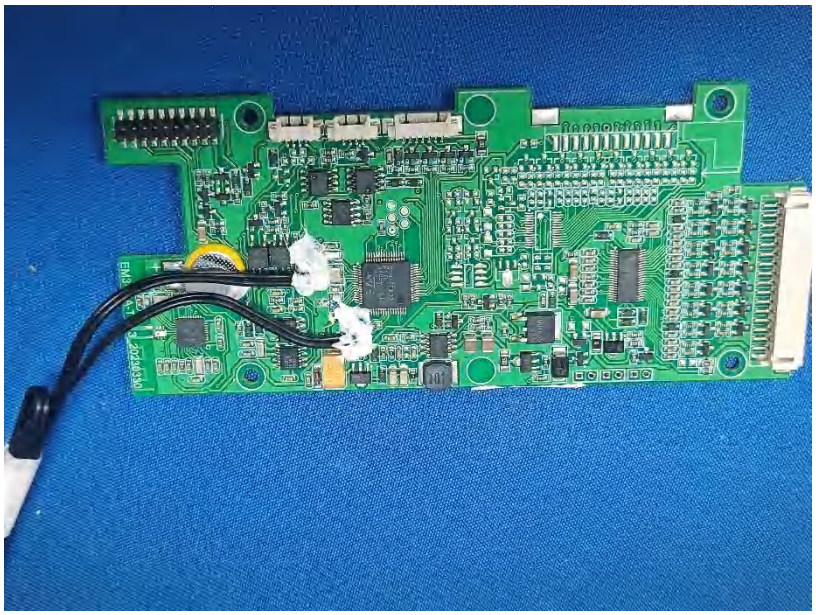


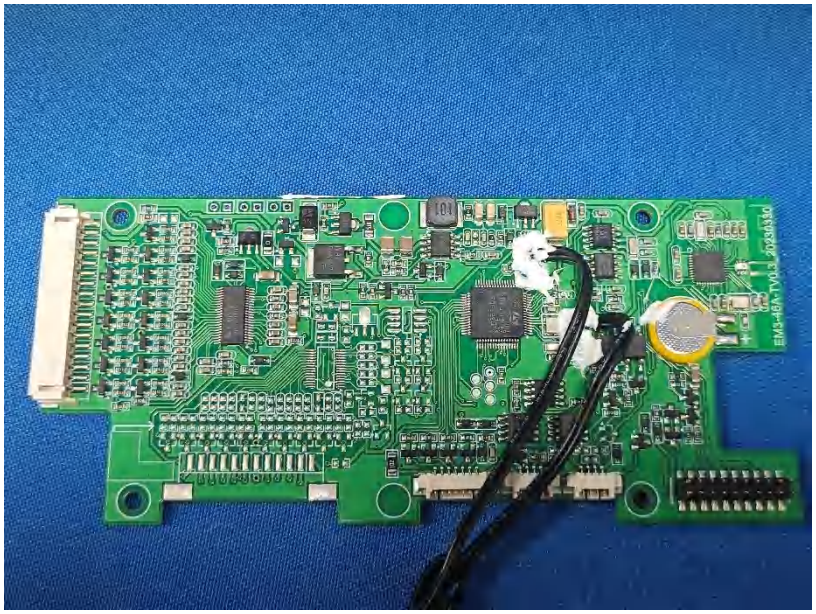


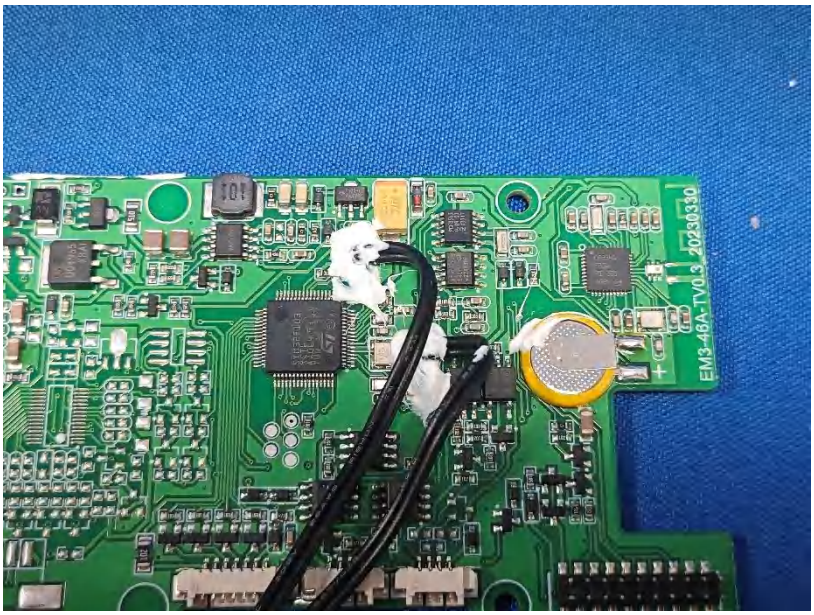


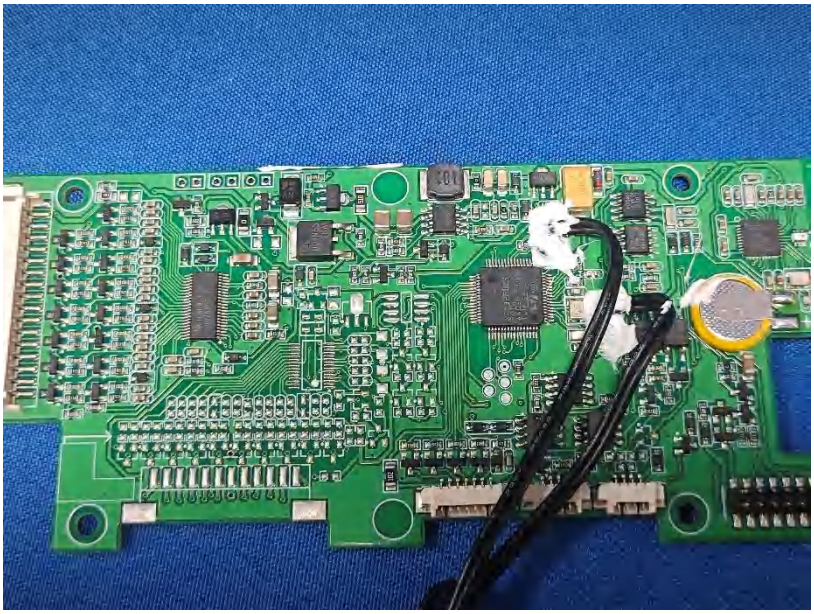


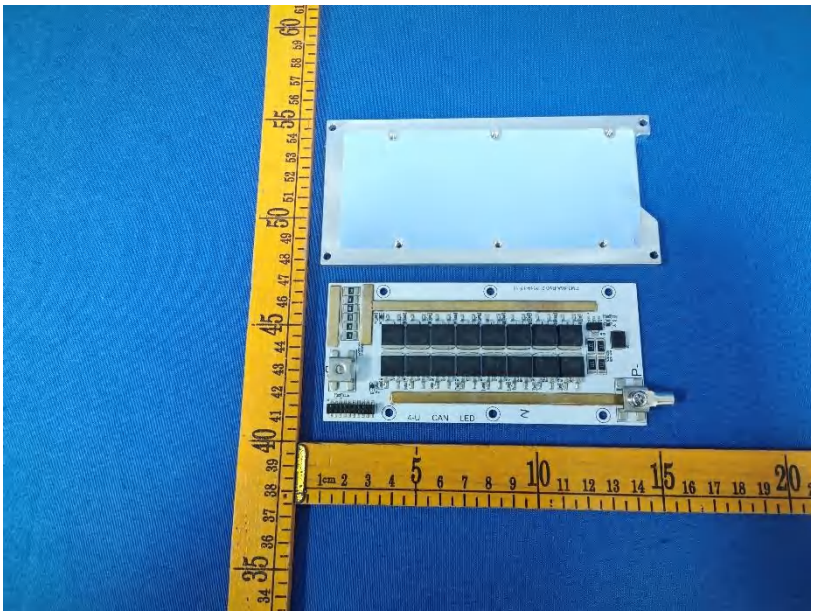


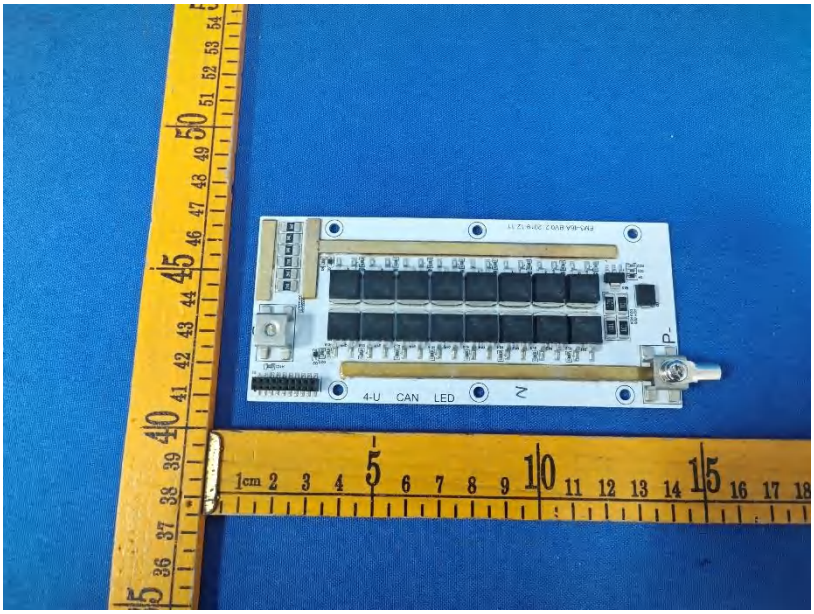


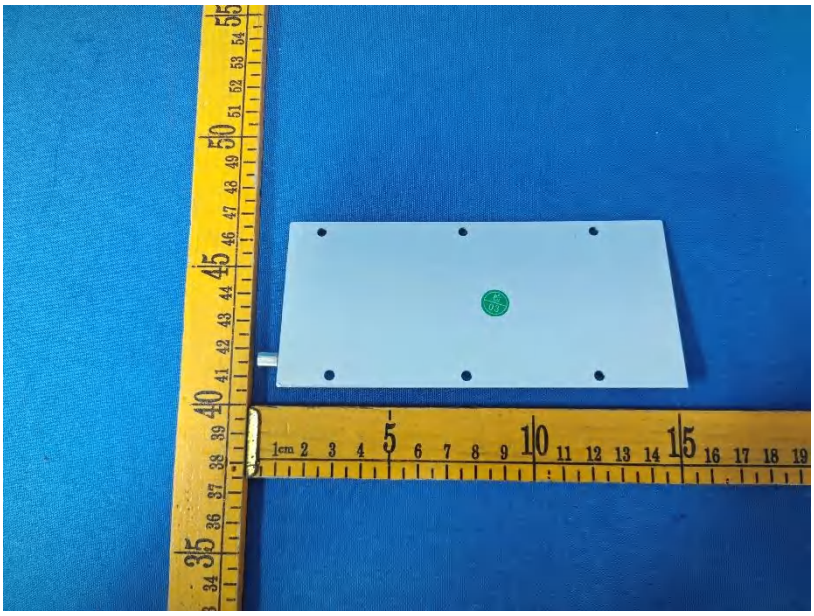


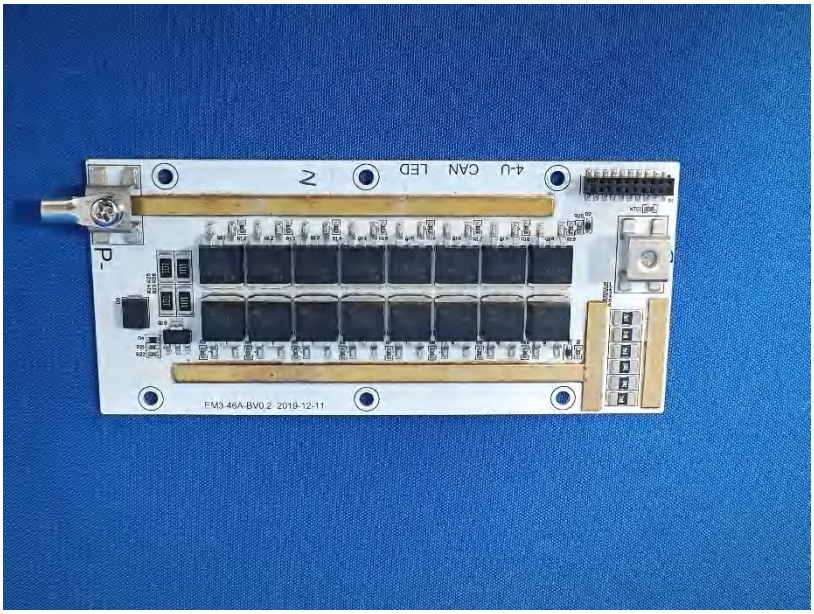

EM3-46A-TV0.3 20230330




4-U CAN LED


4-U CAN LED





********THE END REPORT********