Date: February 3, 2023

Statement and explanations

The module E404X (FCC ID: **2AEMI-E404X**) is a new product with one certified module SARA-R510S (Module ID: XPYUBX19KM01; Grant Date: 08/11/2021) and a new Bluetooth chip Nordic NRF52840-QIAA-R integrated.

The referenced certified module report number is: MDE_UBLOX_2105/ MDE_UBLOX_1905_FCC_01.

This SARA-R510S module is a single modular and it was integrated into the host that not any effect on RF performance. Bureau Veritas 7Layers Communications Technology (Shenzhen) Co. Ltd have performed MPE for the host and the ERP/EIRP and RSE re-tested. Please refer to the lab test results accordingly.

The Module supports LTE Cat M1 B2/4/5/8/12/13/25/26/66/71, LTE Cat NB1 B B2/4/5/8/12/13/66/71/85, but the host with the integrated module SARA-R510S only supports LTE Cat M1 B2/4/5/12/13, it disable other bands by software.

Consequently, Radio test data retrieved from the initial application FCC ID: XPYUBX19KM01 can be re-used for the FCC ID: 2AEMI-E404X.

Spot check test data are described as below:

FCC Rule Part	Frequency Band	Re-test items
FCC Part 22	LTE B5	Conducted output power
		Effective Radiated Power
		Radiated spurious emissions
FCC Part 24	LTE B2	Conducted output power
		Equivalent Isotropic Radiated power
		Radiated spurious emissions
FCC part 27	LTE B4, LTE B12, LTE	Conducted output power
	B13	Equivalent Radiated power and
		Radiated spurious emissions

Besides, E404X have four alternatives on EVO certification chip, more details please check the differences declaration letter.

Sample Number	description	
Sample 1	Main test sample, (U11: TI - bq24195 · U12: Richtek - RT5760CHGH6F)	
Sample 2	Base on sample 1 change U11 to TI - bq24190	
Sample 3	Base on sample 1 change U12 to TI - TLV62568	

Sample 4 Base on sample 1 change U12 to MPS - MP1601GTF-Z

According to the judgement on the sample difference, Full test were performed for the sample 1, the RE (below 1GHz) test item and RSE worst case of WLAN/WWAN were performed for sample 2/3/4 by test lab.

Should you have any question or comment regarding this matter, please have my best attention.

Sincerely yours,

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