

RF EXPOSURE REPORT

Applicant	Particle Industries, Inc
Address	548 Market St PMB 34833 San Francisco, CA94104, United States

Manufacturer or Supplier	Particle Industries, Inc
Address	548 Market St PMB 34833 San Francisco, CA94104, United States
Product	Tracker One LTE M1
Brand Name	Particle
Model	ONE402M
Additional Model & Model Difference	ONE404M, see section 1
Date of tests	Mar. 14, 2026 ~ Mar. 18, 2026

☒ **FCC Part 2 (Section 2.1091)**
☒ **KDB 447498 D01 V06**
☒ **IEEE C95.1**

CONCLUSION: The submitted sample was found to COMPLY with the test requirement

Prepared by Lucas Chen
Project Engineer / EMC Department

Approved by Glyn He
Assistant Manager / EMC Department




Date: Mar. 24, 2026

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FM2008WDG0081	Original release	Sep. 23, 2020
FM2603WDG0066	Based on the original report FM2008WDG0081, the WIFI chip has changed the configuration of one pin, while all other radio frequency parameters remain the same, it needed to be retested conducted output power and radiated emission (below 1GHz only) after engineer evaluated.	Mar. 24, 2026

1. CERTIFICATION

FCC ID:	2AEMI-ONE40X
PRODUCT:	Tracker One LTE M1
BRAND NAME:	Particle
MODEL NO.:	ONE402M
ADDITIONAL NO.:	ONE404M
TEST SAMPLE:	Engineering Sample
APPLICANT:	Particle Industries, Inc
STANDARDS:	FCC Part 2 (Section 2.1091)
	KDB 447498 D01 V06
	IEEE C95.1

Note: Additional model ONE404M is identical with the test model ONE402M except the model number for marketing purpose.

2. RF EXPOSURE LIMIT

LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

FREQUENCY RANGE (MHz)	ELECTRIC FIELD STRENGTH (V/m)	MAGNETIC FIELD STRENGTH (A/m)	POWER DENSITY (mW/cm ²)	AVERAGE TIME (minutes)
LIMITS FOR GENERAL POPULATION / UNCONTROLLED EXPOSURE				
300-1500	...	...	F/1500	30
1500-100,000	...	...	1.0	30

F = Frequency in MHz

3. MPE CALCULATION FORMULA

$$P_d = (P_{out} * G) / (4 * \pi * r^2)$$

where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 3.1416

R = distance between observation point and center of the radiator in cm

4. CLASSIFICATION

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. So, this device is classified as **Mobile Device**.

5. ANTENNA GAIN

The antennas provided to the EUT, please refer to the following table:

Transmitter Circuit	Peak Gain (dBi)	Antenna Type
BT-LE	1.71	FPCB Antenna
	0	Ceramic Antenna
WIFI	1.71	FPCB Antenna

6. CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

The tuned conducted Average Power (declared by client)

Mode	Frequency (MHz)	Target Power (dBm)	Tolerance (dBm)	Lower Tolerance (dBm)	Upper Tolerance (dBm)
BT-LE (GFSK)	2402-2480MHz	8	+ -1	7	9
802.11b	2412-2462MHz	16	+ -1	15	17
802.11g	2412-2462MHz	16	+ -1	15	17
802.11n HT20	2412-2462MHz	16	+ -1	15	17
802.11n HT40	2422-2452MHz	16	+ -1	15	17

The measured conducted Average Power

Mode	Frequency (MHz)	Averaged Power (dBm)
BT-LE (GFSK)	2440	7.81
802.11b	2412	16.22
802.11g	2412	15.66
802.11n HT20	2412	15.60
802.11n HT40	2422	15.42

FREQUENCY BAND(MHz)	MAX AVERAGE POWER(dBm)	ANTENNA GAIN(dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm ²)	LIMIT (mW/cm ²)
BT 2402-2480	9	1.71	20	0.002343	1.0
WiFi 2412-2462	17	1.71	20	0.014782	1.0

CONCLUSION:

The BT and WLAN can transmit simultaneously, the formula of calculated the MPE is:

$$CPD1 / LPD1 + CPD2 / LPD2 + \dots \text{etc.} < 1$$

CPD = Calculation power density

LPD = Limit of power density

$$(0.002343/1)+(0.014782/1) = 0.017125 < 1, \text{ which is less than the "1" limit.}$$

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