RF EXPOSURE REPORT

Applicant	RN CHIDAKASHI TECHNOLOGIES PRIVATE LIMITED
Address	Flat No – 4, StambhTirth Building, Plot No 82, R.A. Kidwai Road, Wadala, Mumbai

Manufacturer or Supplier	PACIFIC INDUSTRIES ZHONGSHAN LIMITED
Address	Xincun Factory Area, Baishawan Industry Park, Eastern District, ZhongShan, Guangdong 528400 CHINA
Product	MIKO2 AUTOMATIC DATA PROCESSING UNIT
Brand Name	N/A
Model	M0201
Additional Model & Model Difference	N/A
Date of tests	Feb. 28, 2019 ~ Apr. 17, 2019

☒ **FCC Part 2 (Section 2.1091)**

☒ **KDB 447498 D01**

☒ **IEEE C95.1**

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

Tested by Breeze Jiang Project Engineer / EMC Department	Approved by Glyn He Supervisor/ EMC Department
	 Date: Apr. 24, 2019

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FM190228N007	Original release	Apr. 24, 2019

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1. CERTIFICATION

FCC ID:	2AS3S-M0201
PRODUCT:	MIKO2 AUTOMATIC DATA PROCESSING UNIT
BRAND NAME:	N/A
MODEL NO.:	M0201
ADDITIONAL NO.:	N/A
APPLICANT:	RN CHIDAKASHI TECHNOLOGIES PRIVATE LIMITED
STANDARDS:	FCC Part 2 (Section 2.1091)
	KDB 447498 D01
	IEEE C95.1

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

$Pd = (Pout*G) / (4*pi*r^2)$

where

Pd = power density in mW/cm^2

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 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
Chain 0	1.7	FPCB Antenna

6. CALCULATION RESULT OF MAXIMUM CONDUCTED AV POWER

The tuned conducted Average Power (declared by client)

Mode	Frequency (MHz)	Target Power (dBm)	Tolerance (dBm)	Lower Tolerance (dBm)	Upper Tolerance (dBm)
GFSK	2402-2480	5	+-2	3	7
8DPSK	2402-2480	4	+-2	2	6
LE-GFSK	2402-2480	-2	+-2	-4	0
802.11b	2412-2462	12	+-2	10	14
802.11g	2412-2462	10	+-2	8	12
802.11n(HT20)	2412-2462	10	+-2	8	12
802.11n(HT40)	2422-2452	10	+-2	8	12

The measured conducted Average Power

Mode	Frequency (MHz)	Averaged Power (dBm)
GFSK	2402	5.65
8DPSK	2402	4.23
LE-GFSK	2402	-1.55
802.11b	2462	12.20
802.11g	2462	10.83
802.11n(HT20)	2462	10.75
802.11n(HT40)	2437	11.14

FREQUENCY BAND (MHz)	MAX AVERAGE POWER (dBm)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm^2)	LIMIT (mW/cm^2)
2402-2480(BT)	7	1.7	20	0.001475	1.0
2412-2462(WIFI)	14	1.7	20	0.007391	1.0

CONCLUSION:

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

CPD1 / LPD1 + CPD2 / LPD2 + ……etc. < 1

CPD = Calculation power density

LPD = Limit of power density

(0.001475/1)+(0.007391/1) = 0.008866<1, which is less than the “1” limit.

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