



Test Report No.: FS170425N038

RF EXPOSURE REPORT

Applicant	Nanjing Innovative Data Technologies, Inc.
Address	9F Bldg A, China Cloud Computing Innovation Center, Qinhua District Nanjing, Jiangsu 210014, China

Manufacturer or Supplier	Nanjing Innovative Data Technologies, Inc.
Address	9F Bldg A, China Cloud Computing Innovation Center, Qinhua District Nanjing, Jiangsu 210014, China
Product	EnvMonitor
Brand Name	N/A
Model	eCat2000
Additional Model & Model Difference	N/A
Date of tests	Apr. 25, 2017 ~ Jul. 10, 2017

☒ 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: Jul. 12, 2017

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FS170425N038	Original release	Jul. 12, 2017

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1. CERTIFICATION

FCC ID:	2ALY4-CSTOR
PRODUCT:	EnvMonitor
BRAND NAME:	N/A
MODEL NO.:	eCat2000
ADDITIONAL NO.:	N/A
TEST SAMPLE:	Engineering Sample
APPLICANT:	Nanjing Innovative Data Technologies, Inc.
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

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

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
Chain 0	2	Integral 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)
802.11b	2412-2462	13	+2	11	15
802.11g	2412-2462	6	+2	4	8
802.11n(HT20)	2412-2462	6	+2	4	8

The measured conducted Average Power

Mode	Frequency (MHz)	Averaged Power (dBm)
802.11b	2412	14.06
802.11g	2412	6.90
802.11n(HT20)	2412	6.68

FREQUENCY BAND (MHz)	MAX AVERAGE POWER (dBm)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm ²)	LIMIT (mW/cm ²)
2412-2462	15	2	20	0.00997	1.0

--- END ---