

RF EXPOSURE REPORT

Applicant	Asian Express Holdings Limited
Address	RM1702, Sino Centre, 582-592 Nathan Road, Mongkok, Kowloon, Hong Kong.

Manufacturer or Supplier	Asian Express Holdings Limited
Address	RM1702, Sino Centre, 582-592 Nathan Road, Mongkok, Kowloon, Hong Kong.
Product	cloud rider drone with air pressure sensor, cloud rider drone with camera, cloud rider drone, cloud rider drone with 480P
Brand Name	PROPEL
Model	PL-1430
Additional Model & Model Difference	PL-1440, PL-1441, PL-1442, PL-1443, PL-1444, PL-1445, PL-1446, PL-1447, PL-1448, PL-1449, PL-1431, PL-1432, PL-1433, PL-1434, PL-1435, PL-1436, PL-1437, PL-1438, PL-1439, X18
Date of tests	Aug. 07, 2018 ~ Sep. 09, 2018

☒ **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: Oct. 15, 2018

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TABLE OF CONTENTS

RELEASE CONTROL RECORD	3
1. CERTIFICATION.....	4
2. RF EXPOSURE LIMIT	5
3. MPE CALCULATION FORMULA.....	5
4. CLASSIFICATION	5
5. ANTENNA GAIN	6
6. CALCULATION RESULT OF MAXIMUM CONDUCTED POWER.....	6



Test Report No.: FM180807N009

RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FM180807N009	Original release	Oct. 15, 2018

1. CERTIFICATION

FCC ID:	VLEPL-1440W
PRODUCT:	cloud rider drone with air pressure sensor, cloud rider drone with camera, cloud rider drone, cloud rider drone with 480P
BRAND NAME:	PROPEL
MODEL NO.:	PL-1430
ADDITIONAL NO.:	PL-1440, PL-1441, PL-1442, PL-1443, PL-1444, PL-1445, PL-1446, PL-1447, PL-1448, PL-1449, PL-1431, PL-1432, PL-1433, PL-1434, PL-1435, PL-1436, PL-1437, PL-1438, PL-1439, X18
TEST SAMPLE:	Engineering Sample
APPLICANT:	Asian Express Holdings Limited
STANDARDS:	FCC Part 2 (Section 2.1091)
	KDB 447498 D01
	IEEE C95.1

Note: Additional models (see above table) are identical with the test model PL-1430 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
Chain 0	2.5	Wire 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	16	+/-1	15	17
802.11g	2412-2462	11	+/-1	10	12
802.11n(HT20)	2412-2462	12	+/-1	11	13

The measured conducted Average Power

Mode	Frequency (MHz)	Averaged Power (dBm)
802.11b	2412	16.77
802.11g	2412	11.83
802.11n(HT20)	2437	12.06

FREQUENCY BAND (MHz)	MAX AVERAGE POWER (dBm)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm ²)	LIMIT (mW/cm ²)
2412-2462	17	2.5	20	0.0178	1.0

--- END ---