



Test Report No.: FM2404WDG0118





# RF EXPOSURE REPORT

Applicant	Grandex International Development Limited
Address	Unit 2401, Million Fortune Ind Ctr., 34-36 Chai Wan Kok Street, Tsuen Wan, Hong Kong

Manufacturer or Supplier	Grandex International Development Limited
Address	Unit 2401, Million Fortune Ind Ctr., 34-36 Chai Wan Kok Street, Tsuen Wan, Hong Kong
Product	R/C VEHICLE - PAGANI / LAMBORGHINI
Brand Name	N/A
Model	61070
Additional Model & Model Difference	N/A
Date of tests	Apr. 11, 2024 ~ May 08, 2024

- FCC Part 2 (Section 2.1093)
- KDB 447498 D01 V06
- IEEE C95.1

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

Tested by Andrew Sha Project Engineer / EMC Department	Approved by Glyn He Assistant Manager / EMC Department
	
	Date: May 14, 2024

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## RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FM2404WDG0118	Original release	May 14, 2024

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## 1. CERTIFICATION

<b>FCC ID:</b>	VC961070240
<b>PRODUCT:</b>	R/C VEHICLE - PAGANI / LAMBORGHINI
<b>BRAND NAME:</b>	N/A
<b>MODEL NO.:</b>	61070
<b>ADDITIONAL NO.:</b>	N/A
<b>APPLICANT:</b>	Grandex International Development Limited
<b>STANDARDS:</b>	FCC Part 2 (Section 2.1093)
	KDB 447498 D01 V06
	IEEE C95.1

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## 2. RF EXPOSURE DEFINE

The corresponding SAR Exclusion Threshold condition, listed below:

- 1) The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances  $\leq 50$  mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$  for 1-g SAR and  $\leq 7.5$  for 10-g extremity SAR, 16 where

- $f(\text{GHz})$  is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is  $\leq 50$  mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is  $< 5$  mm, a distance of 5 mm is applied to determine SAR test exclusion.

- 2) At 100 MHz to 6 GHz and for test separation distances  $> 50$  mm, the SAR test exclusion threshold is determined according to the following:
- a) [Threshold at 50 mm in step 1) + (test separation distance - 50 mm) · (f(MHz)/150)] mW, at 100MHz to 1500 MHz
  - b) [Threshold at 50 mm in step 1) + (test separation distance - 50 mm) · 10] mW at  $> 1500$  MHz and  $\leq 6$  GHz
- 3) At frequencies below 100 MHz, the following may be considered for SAR test exclusion.
- a) The threshold at the corresponding test separation distance at 100 MHz in step 2) is multiplied by  $[1 + \log(100/f(\text{MHz}))]$  for test separation distances  $> 50$  mm and  $< 200$  mm.
  - b) The threshold determined by the equation in a) for 50 mm and 100 MHz is multiplied by  $\frac{1}{2}$  for test separation distances  $\leq 50$  mm.
  - c) SAR measurement procedures are not established below 100 MHz. When SAR test exclusion cannot be applied, a KDB inquiry is required to determine SAR evaluation requirements for any test results to be acceptable.

## 3. CLASSIFICATION

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

## 4. SAR TEST EXCLUSION THRESHOLDS

The tuned conducted Average Power (declared by client)

Mode	Frequency (MHz)	Target Power (dBm)	Tolerance (dBm)	Lower Tolerance (dBm)	Upper Tolerance (dBm)
TX	2417-2475	-27	+2	-29	-25

The measured conducted Average Power

Mode	Frequency (MHz)	Averaged Power (dBuV/m)	Averaged Power (dBm)
TX	2475	67.22	-28.01

Note:

$$E = \frac{\sqrt{30 PG}}{d}$$

E = Electric field strength in v/m

$$V/m = 10^{(dBuV/m - 120)/20}$$

P = Power in Watts

G = Antenna gain in dBi

d = Measurement distance in metres

Power ≈ 0.001582 (mW)

$$dBm = 10 * \log_{10}(0.001582) \approx -28.01 \text{ (dBm)}$$

### SAR Test Exclusion Thresholds

Frequency (MHz)	Maximum source-based time averaged conducted output power (dBm)	Minimum separation distance (mm)	Result of Eq. 1	Limit for 1-g SAR	Limit for 10-g extremity SAR	Verdict
2417-2475	-25	5	0.000995	3.0	7.5	Exempt from SAR

### Conclusion

Therefore this device complies with FCC's RF radiation exposure limits for general population without SAR evaluation.