



BUREAU  
VERITAS

Test Report No.: FM190708N002

## RF EXPOSURE REPORT

Applicant	MMD Hong Kong Holding Limited
Address	Units 1006-1007, 10th Floor, C-Bons International Center, 108 Wai Yip Street, Kwun Tong, Kowloon, Hong Kong

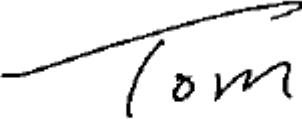
Manufacturer or Supplier	MMD Hong Kong Holding Limited
Address	Units 1006-1007, 10th Floor, C-Bons International Center, 108 Wai Yip Street, Kwun Tong, Kowloon, Hong Kong
Product	Bluetooth Active Noise Cancelling headphones
Brand Name	Philips
Model	TAPN505
Additional Model & Model Difference	TAPN505xx/yy (xx=AA-ZZ, colour of enclosure, yy=00-99, Country destination), See item 1
Date of tests	Jul. 08, 2019 ~ Jul. 31, 2019

**FCC Part 2 (Section 2.1093)**

**KDB 447498 D01**

**IEEE C95.1**

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

Tested by Tom Chen Project Engineer / EMC Department	Approved by Glyn He Supervisor/ EMC Department
	

Date: Aug. 08, 2019

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## RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FM190708N002	Original release	Aug. 08, 2019



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## 1. CERTIFICATION

<b>FCC ID:</b>	2AR2STAPN505
<b>PRODUCT:</b>	Bluetooth Active Noise Cancelling headphones
<b>BRAND NAME:</b>	Philips
<b>MODEL NO.:</b>	TAPN505
<b>ADDITIONAL NO.:</b>	TAPN505xx/yy (xx=AA-ZZ, colour of enclosure, yy=00-99, Country destination)
<b>APPLICANT:</b>	MMD Hong Kong Holding Limited
<b>STANDARDS:</b>	FCC Part 2 (Section 2.1093)
	KDB 447498 D01
	IEEE C95.1

### NOTES:

1. Additional model TAPN505xx/yy (xx=AA-ZZ, colour of enclosure, yy=00-99, Country destination) is identical with the test model TAPN505 except the color of the appearance and model number for trading purpose.



## 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:  
[(max. power of channel, including tune-up tolerance, mW)/(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 comparisonThe 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)  $\cdot (f(\text{MHz})/150)$ ] mW, at 100MHz to 1500 MHz
  - b) [Threshold at 50 mm in step 1) + (test separation distance - 50 mm)  $\cdot 10$ ] 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**.



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## 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)
GFSK	2402-2480	1	+2	-1	3
8DPSK	2402-2480	1	+2	-1	3
BT-LE	2402-2480	1	+2	-1	3

The measured conducted Average Power

Mode	Frequency (MHz)	Averaged Power (dBm)
GFSK	2402	2.03
8DPSK	2402	1.12
BT-LE	2402	1.07

### 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
2402-2480	3	5	0.628	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.

--- END ---