

FCC RF EXPOSURE REPORT

FCC ID: 2AR2STAT2205

Project No. : 1912C113
Equipment : True wireless earphones
Brand Name : PHILIPS
Test Model : TAT2235
Series Model : TAT2205, TAT2205xx/yy, TAT2235xx/yy (xx=AA-ZZ or Blank denoted for different color, yy=00-99 denoted for different country destination)
Applicant : MMD Hong Kong Holding Limited
Address : Units 1006-1007, 10th Floor, C-Bons International Center, 108 Wai Yip Street, Kwun Tong, Kowloon, HongKong
Manufacturer : MMD Hong Kong Holding Limited
Address : Units 1006-1007, 10th Floor, C-Bons International Center, 108 Wai Yip Street, Kwun Tong, Kowloon, HongKong
Factory : HUIZHOU MAGFOCUS TECHNOLOGY CO.,LTD
Address : (Factory building) Yanwu Group, Shengli Village, Chenjiang Street, Huizhou City, Guangdong Province
Date of Receipt : Dec. 30, 2019
Date of Test : Jan. 09, 2020 ~ Jan. 19, 2020
Issued Date : Apr. 03, 2020
Report Version : R00
Test Sample : Engineering Sample No.: DG2019123098-1
Standard(s) : FCC Guidelines for Human Exposure IEEE C95.1 & KDB447498 D01

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.

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REPORT ISSUED HISTORY

Report Version	Description	Issued Date
R00	Original Issue.	Apr. 03, 2020

1. GENERAL INFORMATION

1.1 GENERAL DESCRIPTION OF EUT

Equipment	True wireless earphones	
Brand Name	PHILIPS	
Test Model	TAT2235	
Series Model	TAT2205, TAT2205xx/yy, TAT2235xx/yy (xx=AA-ZZ or Blank denoted for different color, yy=00-99 denoted for different country destination)	
Model Difference(s)	Only differt in model name.	
Power Source	Earphones: 1# Supplied from charging cradle. 2# Supplied from battery. Model: SL551012 Charging Cradle: 1# Supplied from USB Tpye-C port. 2# Supplied from battery. Model: SL701535	
Power Rating	Earphones: 1# 5.0V --- 0.5A 2# DC 3.7V 45mAh Charging Cradle: 1# DC 5V 2# DC 3.7V 350mAh 1.295Wh	
Product Description	Operation Frequency	2402 MHz ~ 2480 MHz
	Modulation Technology	GFSK, $\pi/4$ -DQPSK, 8-DPSK
	Bit Rate of Transmitter	1Mbps, 2Mbps, 3Mbps
	Max. Output Power	-4.13 dBm (0.0004 W) For 1Mbps -2.04 dBm (0.0006 W) For 2Mbps -1.80 dBm (0.0007 W) For 3Mbps

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.

2. Channel List:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	2402	27	2429	54	2456
01	2403	28	2430	55	2457
02	2404	29	2431	56	2458
03	2405	30	2432	57	2459
04	2406	31	2433	58	2460
05	2407	32	2434	59	2461
06	2408	33	2435	60	2462
07	2409	34	2436	61	2463
08	2410	35	2437	62	2464
09	2411	36	2438	63	2465
10	2412	37	2439	64	2466
11	2413	38	2440	65	2467
12	2414	39	2441	66	2468
13	2415	40	2442	67	2469
14	2416	41	2443	68	2470
15	2417	42	2444	69	2471
16	2418	43	2445	70	2472
17	2419	44	2446	71	2473
18	2420	45	2447	72	2474
19	2421	46	2448	73	2475
20	2422	47	2449	74	2476
21	2423	48	2450	75	2477
22	2424	49	2451	76	2478
23	2425	50	2452	77	2479
24	2426	51	2453	78	2480
25	2427	52	2454		
26	2428	53	2455		

3. Table for Filed Antenna:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1		N/A	Internal	N/A	5.0

2. GENERAL CONCLUSION

According to FCC KDB447498 D01, Appendix A, SAR Test Exclusion Thresholds for 100 MHz – 6 GHz and ≤ 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot$$

$$[\sqrt{f(\text{GHz})}] \leq 3.0$$
 for 1-g SAR, and ≤ 7.5 for 10-g extremity SAR, 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

Appendix A - SAR Test Exclusion Thresholds for 100 MHz - 6 GHz and ≤ 50 mm											
MHz	5	10	15	20	25	30	35	40	45	50	mm
150	39	77	116	155	194	232	271	310	349	387	SAR Test Exclusion Thresholds (mW)
300	27	55	82	110	137	164	192	219	246	274	
450	22	45	67	89	112	134	157	179	201	224	
835	16	33	49	66	82	98	115	131	148	164	
900	16	32	47	63	79	95	111	126	142	158	
1500	12	24	37	49	61	73	86	98	110	122	
1900	11	22	33	44	54	65	76	87	98	109	
2450	10	19	29	38	48	57	67	77	86	96	
3600	8	16	24	32	40	47	55	63	71	79	
5200	7	13	20	26	33	39	46	53	59	66	
5400	6	13	19	26	32	39	45	52	58	65	
5800	6	12	19	25	31	37	44	50	56	62	

3. TEST RESULTS

Tune up tolerance(dBm)
BT
± 5

Max. Output Power (dBm)	Max. Output Power (mW)	Limit (mW)
3.20	2.09	10

Note:

- (1) Output power including tune up tolerance.
 - (2) The maximum measured output peak power of this EUT is 2.09 mW, less than 10mW at 5mm distance.
- Conclusion: No SAR evaluation required since transmitter power is below FCC threshold.

End of Test Report