

RF Exposure Evaluation Report					
Report Reference No	МТЕВ24050014-Н 2ALZG-327				
Compiled by (position+printed name+signature):	File administrators Alisa Luo	Aliza Luo			
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Approved by (position+printed name+signature):	Manager Yvette Zhou	petter-			
Date of issue:	May 07,2024				
Representative Laboratory Name. :	Shenzhen Most Technology Se	rvice Co., Ltd.			
Address:	No.5, 2nd Langshan Road, North Nanshan, Shenzhen, Guangdong				
Applicant's name:	Qingdao Magene Intelligence T	echnology Co., Ltd.			
Address:	Room 302, Building 3, No.328A Chengkang Road, Xiazhuang Subdistrict, Chengyang District, Qingdao, Shandong, China.				
Test specification/ Standard:	47 CFR Part 1.1307; 47 CFR Part 1.1310				
TRF Originator	tor Shenzhen Most Technology Service Co., Ltd.				
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Test item description:	AT Series Smart Bike Headlight				
Trade Mark	Magene				
Model/Type reference:	P0108307(This model have two versions of AT1200 and AT1600, which control brightness differences through firmware.)				
Listed Models					
Modulation Type					
Operation Frequency:	From 2402 - 2480MHz 2457MHz				
Rating:	Input: 5.0V===,2.0A, Output: 5.0V===,2.0A Battery: 3.6V, 5.0Ah				
Hardware version:	1.0				
Software version:	1.0				
Result	PASS				

TEST REPORT

Equipment under Test	:	AT Series Smart Bike Headlight
Model /Type	:	P0108307(This model have two versions of AT1200 and AT1600, which control brightness differences through firmware.)
Listed Models	:	N/A
Remark		N/A
Applicant	:	Qingdao Magene Intelligence Technology Co., Ltd.
Address	:	Room 302, Building 3, No.328A Chengkang Road, Xiazhuang Subdistrict, Chengyang District, Qingdao, Shandong, China.
Manufacturer	:	Qingdao Magene Intelligence Technology Co., Ltd.
Address	:	Room 302, Building 3, No.328A Chengkang Road, Xiazhuang Subdistrict, Chengyang District, Qingdao, Shandong, China.

Test Result:	PASS
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The test report merely corresponds to the test sample. It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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1. <u>Revision History</u>

Revision	Issue Date	Revisions	Revised By
00	2024.05.07	Initial Issue	Alisa Luo

2. SAR Evaluation

2.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06

4.3.1. Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

2.1.2 Limits

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

f(GHz) is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation¹⁷ 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

2.1.3 EUT RF Exposure

BLE

Antenna Gain: 0dBi

GFSK						
Test channel	Peak Output Power	Tune up tolerance	Maximum tune-up Power			
	(dBm)	(dBm)	(dBm)	(mW)		
Lowest(2402MHz)	-1.405	-1.405 ± 1	-0.405	0.91		
Middle(2440MHz)	-1.928	-1.928±1	-0.928	0.81		
Highest(2480MHz)	-0.631	-0.631±1	0.369	1.09		

Worst case: GFSK						
Channel Maximum Peak Conducted Output Power (dBm)	Maximum tune-up Power		Calculated	Exclusion	SAR Test	
	(dBm)	(mW)	value	threshold	Exclusion	
Highest (2480MHz)	-0.631	0.369	1.09	0.24	3.0	Yes

Note: 1) Refer to report **MTEB24050014-R** for EUT test Max Conducted average Output Power value.

ANT+ Antenna Gain: 0dBi

GFSK						
Test channel	Peak Output Power	Tune up tolerance	Maximum tune-up Power			
	(dBm)	(dBm)	(dBm)	(mW)		
CH1(2457MHz)	-1.91	-1.91±1	-0.91	0.81		

Worst case: GFSK						
Channel Maximum Peak Conducted Output Power (dBm)	Maximum tune- up Power		Calculated	Exclusion	SAR Test	
	•	(dBm)	(mW)	value	threshold	Exclusion
CH1(2457MHz)	-1.91	-0.91	0.81	0.24	3.0	Yes

Note: 1) Refer to report MTEB24050014-R1 for EUT test Max Conducted average Output Power value.

.....THE END OF REPORT.....