

Shenzhen Toby Technology Co., Ltd.

Report No.: TB-MPE149565

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Maximum Permissible Exposure Evaluation

FCC ID: 2AJRQ-ME300RE

1. Client Information

Applicant: Maxeye Smart Technologies Co., Ltd.

Address : Room 6008, Chuangxingda Building, Xinan, Baoan, Shenzhen, P.R.C

Manufacturer : Maxeye Smart Technologies Co., Ltd.

Address : Room 6008, Chuangxingda Building, Xinan, Baoan, Shenzhen, P.R.C

2. General Description of EUT

EUT Name		ME300RE 1.0		
Models No.	Ŀ	ME300RE 1.0		
Model Difference		N/A		
(LO17)		Operation Frequency: 802.11b/g/n(HT20): 2412MHz~2462MHz 802.11n(HT40): 2422MHz~2452MHz		
THE REAL PROPERTY.		Number of Channel:	802.11b/g/n(HT20):11 channels see note(3) 802.11n(HT40): 7 channels see note(3)	
Product Description		RF Output Power:	802.11b: 22.19 dBm 802.11g: 21.94 dBm 802.11n (HT20): 21.86 dBm 802.11n (HT40): 21.78 dBm	
		Antenna Gain: 4.6 dBi Dipole Antenna		
3 1000		Modulation Type:	802.11b: DSSS(CCK, QPSK, BPSK) 802.11g: OFDM 802.11n: OFDM	
(ID)33		Bit Rate of Transmitter:	802.11b:11/5.5/2/1 Mbps 802.11g:54/48/36/24/18/12/9/6 Mbps 802.11n:up to 150Mbps	

TB-RF-075-1.0

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Power Supply		DC 5V supplied by AC/DC Adapter.			
Power Rating	:	AC/DC Adapter: Input: AC 100~240V, 50/60Hz Output: DC 5V			
Connecting I/O Port(S)					
The state of the s	bout	t the RF function, please refer the RF test reports.			

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MPE Calculations for WIFI

1. Antenna Gain:

Dipole Antenna: 4.6 dBi.

2. EUT Operation Condition:

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

3. Exposure Evaluation:

Equation from page 18 of OET Bulletin 65, Edition 97-01

 $S=(PG)/4\pi R^2$

Where

S: power density

P: power input to the antenna

G: power gain of the antenna in the direction of interest relative to an isotropic radiator.

R: distance to the center of radiation of the antenna

4. Test Result:

			W	orst Maxin	num MPE Res	ult		
Mode	N _{TX}	Freq. (MHz)	Conducted Power(max) (dBm)	Turn-up Power (dB)	Max tune up power (dBm) [P]	ANT Gain (dBi) [G]	Distance (cm) [R]	Power Density (mW/ cm ²) [S]
802.11b 1	Old De	2412	22.09	22±1	23	4.6	20	0.114
	1	2437	22.19	22±1	23	4.6	20	0.114
		2462	22.13	22±1	23	4.6	20	0.114
802.11g 1		2412	21.87	21±1	22	4.6	20	0.091
	1	2437	21.88	21±1	22	4.6	20	0.091
		2462	21.94	21±1	22	4.6	20	0.091
		2412	21.71	21±1	22	4.6	20	0.091
802.11n (HT20)	2	2437	21.77	21±1	22	4.6	20	0.091
		2462	21.86	21±1	22	4.6	20	0.091
802.11n (HT4)		2422	21.78	21±1	22	4.6	20	0.091
	2	2437	21.70	21±1	22	4.6	20	0.091
		2452	21.74	21±1	22	4.6	20	0.091

Note:

(2) RF Output power specifies that Maximum Conducted Peak Output Power.

5. Conclusion:

⁽¹⁾ N_{TX}= Number of Transmit Antennas



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As specified in Table 1B of 47 CFR 1.1310- Limits for Maximum Permissible Exposure (MPE),

Limits for General Population/ Uncontrolled Exposure

Frequency Range (MHz)	Power density (mW/ cm²)		
300-1,500	F/1500		
1,500-100,000	1.0		

For 802.11b/g/n (2412~2462 MHz)

MPE limit S: 1 mW/ cm²

The MPE is calculated as 0.114mW / cm² < limit 1 mW / cm². So, RF exposure limit warning or SAR test are not required.

The EUT will only be used with a separation of 20cm or greater between the antenna and nearby persons and can therefore be considered a mobile transmitter per 47 CFR2.1091 (b).

The RF Exposure Information page from the manual is included here for reference.

Note

For a more detailed features description, please refer to the RF Test Report.

----END OF REPORT----