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Maximum Permissible Exposure Evaluation FCC ID: 2BDWZ-EDH-10I

1. Client Information

Applicant	: (Momentum Sales & Marketing, Inc. dba Eva-Dry			
Address		2191 West Linebaugh Ave #152, Tampa, FL 33626 USA			
Manufacturer	17	Shenzhen Forever Young Technology Co., Ltd			
Address		2/F, No B2 Bldg, Fuyuan Industrial Park, Fu yong Town Bao'sn Distrcit, Shenzhen, China			

2. General Description of EUT

EUT Name	:	Temperature & Humidity Sensor				
Models No.	:	EDH-10i				
Model Different		1112				
Product Description		Operation Frequency:	Bluetooth 5.2(BLE): 2402MHz~2480MHz 802.11b/g/n(HT20): 2412MHz~2462MHz 802.11n(HT40): 2422MHz-2452MHz			
		Antenna Gain:	1.37dBi PCB antenna			
Li-ion Polymer Battery		DC 1.5V by AAA battery*2				
Software Version	:	V 5.6.1				
Hardware Version	:	V 2.1.0				
Connecting I/O Port(S)	!	Please refer to the User's Manual				
Remark	6	the evaluation report used the EUT(202310-0239-1-2#).				



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MPE Calculations for WIFI

1. EUT Operation Condition:

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

2. 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

3. Simultaneous transmission MPE Considerations

According to KDB447498: All transmitters and antennas in the host must be either evaluated for MPE compliance, by measurement or computational modeling, or qualify for the standalone MPE test exclusion in section 7.1. Simultaneous transmission MPE test exclusion applies when the sum of the MPE ratios for all simultaneous transmitting antennas incorporated in a host device, based on the calculated/estimated, numerically modeled or measured field strengths or power density, is ≤ 1.0.

This means that:

y of MPE ratios ≤ 1.0

4. Test Result:

Bluetooth worst reported.

Mode	Frequency (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]
DIE	2402	4.041	4±1	5	1.37	20	0.0009
BLE (1Mbps)	2440	4.098	4±1	5	1.37	20	0.0009
(TIMIDPS)	2480	3.053	3±1	4	1.37	20	0.0007

2.4G WIFI worst reported.

		-						
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]
		2412	14.8	15±1	16	1.37	20	0.0109
802.11b	1	2437	14.5	15±1	16	1.37	20	0.0109
J Am		2462	14.48	14±1	15	1.37	20	0.0086
	302.11g 1	2412	17.3	17±1	18	1.37	20	0.0172
802.11g		2437	17.35	17±1	18	1.37	20	0.0172
	(A)	2462	17.4	17±1	18	1.37	20	0.0172



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802.11n2 0	(a)	2412	17.77	18±1	19	1.37	20	0.0217
	2437	17.87	18±1	19	1.37	20	0.0217	
		2462	17.39	17±1	18	1.37	20	0.0172
802.11n4 0		2422	17.78	18±1	19	1.37	20	0.0217
	1	2437	17.5	18±1	19	1.37	20	0.0217
		2452	17.37	17±1	18	1.37	20	0.0172

Note:

N_{TX}= Number of Transmit Antennas

RF Output power specifies that Maximum Conducted Peak Output Power.

5. Conclusion:

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 Bluetooth, 2.4G WiFi

MPE limit S: 1mW/ cm²

The MPE is calculated as 0.0217 < *limit 1mW / cm*². 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.

6. Conclusion:

The measurement results comply with the FCC Limit per 47 CFR 2.1091 for the uncontrolled RF Exposure of mobile device.

----END OF REPORT----