



MAX Testing Co.,Ltd.

Report No.: MAX26050116P01-R02RF

RF TEST REPORT

Report Reference No.....: **MAX26050116P01-R02RF**

FCC ID.....: **2A6DB-H1**

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Address.....: 1/F, Building B, Xinshidai GR Park,Shiyan Street, Bao'an District, Shenzhen,Guangdong, 518052, People's Republic of China

Applicant's name.....: **Shenzhen Innioasis Technology Co.,Ltd**

Address.....: Room 405, Building C, Dunfa Industrial Zone, Hangcheng Avenue, xixiang street, Baoan District, Shenzhen

Test specification.....:

Standard.....: **KDB 447498 D01 General RF Exposure Guidance v06**

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Test item description.....: **AI Sleep aid lamp**

Trade Mark.....: AIVOZ

Manufacturer.....: Shenzhen Innioasis Technology Co.,Ltd

Model/Type reference.....: H1

Listed Models: H1B, H1C, H1D

Modulation: GFSK, $\pi/4$ DQPSK, 8-DPSK, OFDM

Frequency.....: From 2402MHz to 2480MHz
From 2412 - 2462MHz
From 5180MHz-5240MHz, 5745MHz-5825MHz

Rating.....: 100-240V, 50-60Hz, 0.6A MAX

Result.....: **PASS**

RF Exposure Evaluation

Limits

The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b)

According to KDB 447498 D01 General RF Exposure Guidance v06, 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 Test Exclusion Threshold condition(s), listed below, is (are) satisfied.

Limits for Maximum Permissible Exposure (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3–3.0	614	1.63	*(100)	6
3.0–30	1842/f	4.89/f	*(900/f ²)	6
30–300	61.4	0.163	1.0	6
300–1500			f/300	6
1500–100,000			5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3–1.34	614	1.63	*(100)	30
1.34–30	824/f	2.19/f	*(180/f ²)	30
30–300	27.5	0.073	0.2	30
300–1500			f/1500	30
1500–100,000			1.0	30

f = frequency in MHz

Friis transmission formula: $Pd = (P_{out} * G) / (4 * \pi * r^2)$

Where

Pd = power density in mW/cm², **Pout** = output power to antenna in mW;

G = gain of antenna in linear scale, **Pi** = 3.1416;

R = distance between observation point and center of the radiator in cm

Pd is the limit of MPE, 1 mW/cm². If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.

Test Procedure

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

EUT Specification

Frequency band (Operating)	☒ WLAN: 2.412GHz ~ 2.462GHz ☒ WLAN: 5.150GHz ~ 5.250GHz ☒ WLAN: 5.725GHz ~ 5.850GHz ☒ Others BT:2402-2480MHz
Device category	☐ Portable (<20cm separation) ☒ Mobile (>20cm separation) ☐ Others
Antenna diversity	☒ Single antenna ☐ Multiple antennas ☐ Tx diversity ☐ Rx diversity ☐ Tx/Rx diversity
Antenna gain (Max)	1.0 dBi(2.4G) 0.8 dBi(5.0G)
Evaluation applied	☒ MPE Evaluation ☐ SAR Evaluation

Maximum measured transmitter power.

BR+EDR+BLE

Channel	Frequency (MHz)	Output power to antenna (dBm)	Output power to antenna (mW)	Antenna Gain (dBi)	Power Density at R=20cm (mW/cm ²)	Limit (mW/cm ²)	Result
GFSK	2402	3.86	2.43	1.0	0.00061	1.0	PASS
	2441	3.59	2.29	1.0	0.00057	1.0	PASS
	2480	4.31	2.70	1.0	0.00068	1.0	PASS
Π/4DQPSK	2402	4.25	2.66	1.0	0.00067	1.0	PASS
	2441	3.90	2.45	1.0	0.00062	1.0	PASS
	2480	4.55	2.85	1.0	0.00071	1.0	PASS
8DPSK	2402	4.42	2.77	1.0	0.00069	1.0	PASS
	2441	4.05	2.54	1.0	0.00064	1.0	PASS
	2480	4.78	3.01	1.0	0.00075	1.0	PASS
GFSK	2402	4.07	2.55	1.0	0.00064	1.0	PASS
	2440	3.73	2.36	1.0	0.00059	1.0	PASS
	2480	4.51	2.82	1.0	0.00071	1.0	PASS

WIFI 2.4G

Channel	Frequency (MHz)	Output power to antenna (dBm)	Output power to antenna (mW)	Antenna Gain (dBi)	Power Density at R=20cm (mW/cm ²)	Limit (mW/cm ²)	Result
802.11b	2412	8.18	6.58	1.0	0.00165	1.0	PASS
	2437	8.03	6.35	1.0	0.00159	1.0	PASS
	2462	8.60	7.24	1.0	0.00182	1.0	PASS
802.11g	2412	8.44	6.98	1.0	0.00175	1.0	PASS
	2437	8.25	6.68	1.0	0.00167	1.0	PASS
	2462	8.20	6.61	1.0	0.00166	1.0	PASS
802.11n (HT20)	2412	7.77	5.98	1.0	0.00150	1.0	PASS
	2437	7.24	5.30	1.0	0.00133	1.0	PASS
	2462	7.99	6.30	1.0	0.00158	1.0	PASS

WIFI 5G

Channel	Frequency (MHz)	Output power to antenna (dBm)	Output power to antenna (mW)	Antenna Gain (dBi)	Power Density at R=20cm (mW/cm ²)	Limit (mW/cm ²)	Result
	5180	7.55	5.69	0.8	0.00136	1.0	PASS
	5200	7.65	5.82	0.8	0.00139	1.0	PASS
	5240	7.81	6.04	0.8	0.00145	1.0	PASS
802.11n (HT20)	5180	7.17	5.21	0.8	0.00125	1.0	PASS
	5200	7.81	6.04	0.8	0.00145	1.0	PASS
	5240	7.56	5.70	0.8	0.00136	1.0	PASS
802.11ac (HT20)	5180	7.12	5.15	0.8	0.00123	1.0	PASS
	5200	7.74	5.94	0.8	0.00142	1.0	PASS
	5240	7.53	5.66	0.8	0.00136	1.0	PASS
802.11a	5745	5.85	3.85	0.8	0.00092	1.0	PASS
	5785	5.65	3.67	0.8	0.00088	1.0	PASS
	5825	5.58	3.61	0.8	0.00086	1.0	PASS
802.11n (HT20)	5745	3.63	2.31	0.8	0.00055	1.0	PASS
	5785	4.82	3.03	0.8	0.00073	1.0	PASS
	5825	5.35	3.43	0.8	0.00082	1.0	PASS
802.11ac (HT20)	5745	4.89	3.08	0.8	0.00074	1.0	PASS
	5785	4.63	2.90	0.8	0.00069	1.0	PASS
	5825	5.25	3.35	0.8	0.00080	1.0	PASS

Conclusion: No SAR is required.