



MAXLAB Testing Co.,Ltd.

Report No.: MAX26010411-P01R01RF

RF TEST REPORT

Report Reference No..... : MAX26010411-P01R01RF

FCC ID..... : 2AL7F-FCD-FHQ01

Compiled by
(position+printed name+signature).. : Engineer/ Cindy Zheng

Cindy Zheng

Supervised by
(position+printed name+signature).. : Manager/Haley Wen

Haley Wen

Approved by
(position+printed name+signature).. : RF Manager/ Vivian Jiang

Vivian Jiang

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Testing Laboratory Name..... : MAXLAB Testing Co.,Ltd.

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

Applicant's name..... : Focus Industrial (HongKong) Development CO.,LIMITED

Address..... : Room 87, 1/F South Seas Centre, 75 Mody Road, Tsim Sha Tsui, Kowloon, Hong Kong

Test specification..... :

Standard..... : KDB 447498 D01 v06
FCC Part 2.1091

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Test item description..... : Smart Incubator with Camera

Trade Mark..... : FIREBOX

Manufacturer..... : Dong Guan Focus Electronics Co., Ltd

Model/Type reference..... : FCD-FHQ01

Listed Models : FCD-FHQ02, FCD-FHQ03, FCD-FHQ04, FCD-FHQ05

Modulation : GFSK
CCK/ DSSS/ OFDM
OFDM

Frequency..... : From 2402MHz - 2480MHz
From 2412MHz - 2462MHz
From 5745MHz-5825MHz

Rating..... : DC 12V

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: $Pd = (Pout \cdot G) / (4 \cdot \pi \cdot r^2)$

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.

Test Result of RF Exposure Evaluation

BT

Operation Frequency: 2402-2480MHz,

Power density limited: 1mW/ cm²

2.4GWiFi:

Operation Frequency: 802.11b/g/n(HT20): 2412-2462MHz;

802.11n(HT40): 2422-2452MHz,

Power density limited: 1mW/ cm²

5GWiFi:

802.11a: 20 MHz

802.11n: 20 MHz, 40 MHz

802.11ac: 20 MHz, 40 MHz, 80MHz

Antenna Type: FPC Antenna

Antenna gain: 2.83dBi(BT/WIFI2.4G)/ 2.85dBi(WIFI5.8G)

R=20cm

BR+EDR

Channel	Frequency (MHz)	Output power to antenna (dBm)	Output power to antenna (mW)	Power Density at R=20cm (mW/cm ²)	Limit (mW/cm ²)	Result
GFSK	2402	4.25	2.66	0.00102	1.0	PASS
	2440	3.76	2.38	0.00091	1.0	PASS
	2480	3.65	2.32	0.00089	1.0	PASS

WiFi 2.4G

Channel	Frequency (MHz)	Output power to antenna (dBm)	Output power to antenna (mW)	Power Density at R=20cm (mW/cm ²)	Limit (mW/cm ²)	Result
802.11b	2412	13.77	23.82	0.00910	1.0	PASS
	2437	12.95	19.72	0.00753	1.0	PASS
	2462	14.21	26.36	0.01007	1.0	PASS
802.11g	2412	15.52	35.65	0.01361	1.0	PASS
	2437	14.59	28.77	0.01099	1.0	PASS
	2462	16.26	42.27	0.01614	1.0	PASS
802.11n (HT20)	2412	14.11	25.76	0.00984	1.0	PASS
	2437	14.69	29.44	0.01124	1.0	PASS
	2462	14.15	26.00	0.00993	1.0	PASS
802.11n (HT40)	2422	12.97	19.82	0.00757	1.0	PASS
	2437	14.01	25.18	0.00962	1.0	PASS
	2452	12.84	19.23	0.00734	1.0	PASS

WiFi 5.8G

UNII-3

Channel	Frequency (MHz)	Output power to antenna (dBm)	Output power to antenna (mW)	Power Density at R=20cm (mW/cm ²)	Limit (mW/cm ²)	Result
802.11a	5745	8.35	6.84	0.00262	1.0	PASS
	5785	8.75	7.50	0.00288	1.0	PASS
	5825	8.49	7.06	0.00271	1.0	PASS
802.11n (HT20)	5745	10.32	10.76	0.00413	1.0	PASS
	5785	10.73	11.83	0.00454	1.0	PASS
	5825	10.24	10.57	0.00405	1.0	PASS
802.11n (HT40)	5755	7.19	5.24	0.00201	1.0	PASS
	5795	7.48	5.60	0.00215	1.0	PASS
802.11ac (VHT20)	5745	10.19	10.45	0.00401	1.0	PASS
	5785	10.53	11.30	0.00433	1.0	PASS
	5825	10.96	12.47	0.00479	1.0	PASS
802.11ac (VHT40)	5755	7.27	5.33	0.00205	1.0	PASS
	5795	7.38	5.47	0.00210	1.0	PASS
802.11ac (VHT80)	5775	6.07	4.05	0.00155	1.0	PASS

Note: WiFi and Bluetooth cannot transmit simultaneously



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

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