



RF EXPOSURE REPORT

Product: 402548 module

Model Name: MP14-ARGON

FCC ID: OMC402548

Applicant: Icon Health & Fitness, Inc.

Address: 1500 South 1000 West 435-786-5915 Logan, UT 84321, United

States

Manufacturer: Icon Health & Fitness, Inc.

Address: 1500 South 1000 West 435-786-5915 Logan, UT 84321, United

States

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Report No.: SA180830W006-1

Received Date: Aug. 30, 2018

Test Date: Aug. 31, 2018 ~ Oct. 23, 2018

Issued Date: Oct. 24, 2018

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
SA180830W006-1	Original release	Oct. 24, 2018

Report Version 1

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BV 7Layers Communications Technology

(Shenzhen) Co. Ltd



CERTIFICATION

PRODUCT: 402548 module

BRAND NAME: N/A

MODEL NAME: MP14-ARGON

APPLICANT: Icon Health & Fitness, Inc.

TESTED: Aug. 31, 2018 ~ Oct. 23, 2018

TEST SAMPLE: Production Unit

STANDARDS: FCC Part 2 (Section 2.1091)

FCC OET Bulletin 65, Supplement C (01-01)

KDB 447498 D01 General RF Exposure Guidance v06

IEEE C95.1

The above equipment has been tested by BV 7Layers Communications Technology (Shenzhen) Co. Ltd and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

PREPARED BY: DATE: Oct. 24, 2018

APPROVED BY:

(Sam Tung / Manager)

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2 GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

PRODUCT	402548 module			
MODEL NAME	MP14-ARGON			
NOMINAL VOLTAGE	12Vdc (adapter or host equipment)			
OPERATING TEMPERATURE RANGE	0 ~ 40°C			
	WLAN	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM		
MODULATION TYPE	BT_LE	BT-LE(GFSK) for DTS		
	Bluetooth	GFSK, π/4-DQPSK, 8DPSK		
OPERATING FREQUENCY	WLAN	2412 ~ 2462MHz for 11b/g/n(HT20) 5180 ~ 5240MHz, 5260 ~ 5320MHz, 5500 ~ 5700MHz, 5745 ~ 5805MHz for 11a/n(HT20)/n(HT40)		
	Bluetooth/BT_LE	2402MHz ~ 2480MHz		
ANTENNA TYPE	PIFA Antenna			
ANTENNA GAIN	2.17dBi for BT/2.4G WLAN 2.93dBi for 5G WLAN			
HW VERSION	A184C V2.0			
SW VERSION	Model number J1002			
I/O PORTS	Refer to user's man	efer to user's manual		
CABLE SUPPLIED N/A				

NOTE:

- 1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- 2. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.
- 3. The EUT was powered by the following LCD Panels:

LCD PANEL 1	LCD PANEL 1				
BRAND:	N/A				
MODEL:	NV140FHM-N46				
SPEC:	14.0 inch				
MANUFACTUR:	CHONGQINGBOE OPTOELECTRONICS				
WANUFACTUR:	TECHNOLOGY CO, LTD				



LCD Panel 2				
BRAND:	N/A			
MODEL:	NV140-FHM-N43			
SPEC:	14.0 inch			
MANUFACTUR:	BEIJING BOE DISPLAY TECHNOLOGY			

4. LCD 1 Full test, LCD 2 verify, only the worst case data include in the report.



3 RF EXPOSURE

3.1 LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

FREQUENCY RANGE (MHz)	ELECTRIC FIELD STRENGTH (V/m)	MAGNETIC FIELD STRENGTH (A/m)	POWER DENSITY (mW/cm²)	AVERAGE TIME (minutes)		
LIMI	LIMITS FOR GENERAL POPULATION / UNCONTROLLED EXPOSURE					
300-1500			F/1500	30		
1500-100,000			1.0	30		

F = Frequency in MHz

3.2 MPE CALCULATION FORMULA

Pd = (Pout*G) / (4*pi*r2)

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

3.3 CLASSIFICATION

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. So, this device is classified as **Mobile Device**.



3.4 CONDUCTED POWER

Bluetooth

GFSK

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER (dBm)	Tune-up Power (dBm)	PASS/FAIL
0	2402	5.60	6.0	N/A
39	2441	5.08	6.0	N/A
78	2480	3.81	4.0	N/A

π /4 DQPSK

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER (dBm)	Tune-up Power (dBm)	PASS/FAIL
0	2402	1.37	1.5	N/A
39	2441	2.58	3.0	N/A
78	2480	2.96	3.0	N/A

8DPSK

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER (dBm)	Tune-up Power (dBm)	PASS/FAIL
0	2402	2.67	3.0	N/A
39	2441	2.11	3.0	N/A
78	2480	1.39	1.5	N/A

BT-LE (GFSK)

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER (dBm)	Tune-up Power (dBm)	PASS/FAIL
0	2402	-1.30	-1.0	N/A
19	2440	-1.40	-1.0	N/A
39	2480	-2.41	-2.0	N/A



WIFI 2.4G

802.11b

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER (dBm)	Tune-up Power (dBm)	PASS/FAIL
1	2412	14.93	15.5	N/A
6	2437	15.06	15.5	N/A
11	2462	15.03	15.5	N/A

802.11g

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER (dBm)	Tune-up Power (dBm)	PASS/FAIL
1	2412	13.06	13.5	N/A
6	2437	13.98	14.0	N/A
11	2462	12.90	13.5	N/A

802.11n (20MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER (dBm)	Tune-up Power (dBm)	PASS/FAIL	
1	2412	12.87	13.0	N/A	
6	2437	12.92	13.0	N/A	
11	2462	12.85	13.0	N/A	



WIFI 5G

802.11a

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER (dBm)	Tune-up Power (dBm)	PASS/FAIL
36	5180	14.04	14.5	PASS
40	5200	14.03	14.5	PASS
48	5240	14.07	14.5	PASS
52	5260	13.98	14.5	PASS
60	5300	14.14	14.5	PASS
64	5320	13.92	14.5	PASS
100	5500	14.26	14.5	PASS
116	5580	14.04	14.5	PASS
140	5700	13.90	14.5	PASS
149	5745	13.83	14.5	PASS
157	5785	14.10	14.5	PASS
161	5805	14.09	14.5	PASS

802.11n (20MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER (dBm)	Tune-up Power (dBm)	PASS/FAIL
36	5180	13.41	13.5	PASS
40	5200	13.18	13.5	PASS
48	5240	13.02	13.5	PASS
52	5260	13.08	13.5	PASS
60	5300	13.26	13.5	PASS
64	5320	12.97	13.5	PASS
100	5500	13.36	13.5	PASS
116	5580	13.08	13.5	PASS
140	5700	13.07	13.5	PASS
149	5745	13.24	13.5	PASS
157	5785	13.13	13.5	PASS
161	5805	13.31	13.5	PASS

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802.11n (40MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER (dBm)	Tune-up Power (dBm)	PASS/FAIL
38	5190	12.40	12.5	PASS
46	5230	13.16	13.5	PASS
54	5270	13.28	13.5	PASS
62	5310	12.13	12.5	PASS
102	5510	11.56	12.0	PASS
110	5550	13.25	13.5	PASS
134	5670	13.16	13.5	PASS
151	5755	12.98	13.5	PASS
159	5795	13.28	13.5	PASS

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3.5 CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

TUNE-UP POWER TABLE

Band	Frequency (MHz)	Operating Mode	Tune-Up Power And Tolerance (dBm)	
Bluetooth	2402	GFSK	5.5 ± 0.5	
WIFI 2.4G	2437	11b	15.0 ± 0.5	
WIFI 5G B1	5240	11a	14.0 ± 0.5	
WIFI 5G B2	5300	11a	14.0 ± 0.5	
WIFI 5G B3	5500	11a	14.0 ± 0.5	
WIFI 5G B4	5785	11a	14.0 ± 0.5	

CALCULATION RESUL

Band	Frequency (MHz)	Operating Mode	Antenna Gain (dBi)	Tune-up Power (dBm)	E.I.R.P Power (mW)	Power Density (mW/cm^2)	limit (mW/cm^2)	PASS / FAIL
Bluetooth	2402	GFSK	2.17	6.0	6.561	0.001	1.00	PASS
WIFI 2.4G	2437	11b	2.17	15.5	58.479	0.012	1.00	PASS
WIFI 5G B1	5240	11a	2.93	14.5	55.335	0.011	1.00	PASS
WIFI 5G B2	5300	11a	2.93	14.5	55.335	0.011	1.00	PASS
WIFI 5G B3	5500	11a	2.93	14.5	55.335	0.011	1.00	PASS
WIFI 5G B4	5785	11a	2.93	14.5	55.335	0.011	1.00	PASS

Note: The WLAN and Bluetooth cannot transmit simultaneously, so there is no co-location test requirement for WLAN and Bluetooth.

--END--