



FCC RF Test Report

APPLICANT : Innowi Inc.
EQUIPMENT : ChecOut M
BRAND NAME : Innowi
MODEL NAME : IWCHT-M102
FCC ID : 2AO2Y-IWCHTM102
STANDARD : FCC Part 15 Subpart E §15.407
CLASSIFICATION : (NII) Unlicensed National Information Infrastructure

This is a data re-used report which is only valid together with the original test report. We, Sporton International (Shenzhen) Inc., would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International (Shenzhen) Inc., the test report shall not be reproduced except in full.



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR7D0101-01E	Rev. 01	Initial issue of report	Sep. 27, 2018



1 General Description

1.1 Applicant

Innowi Inc.

3240 Scott Blvd. Santa Clara CA 95054 USA

1.2 Manufacturer

Innowi Inc.

3240 Scott Blvd. Santa Clara CA 95054 USA

1.3 Feature of Equipment Under Test

Product Feature	
Equipment	ChecOut M
Brand Name	Innowi
Model Name	IWCHT-M102
FCC ID	2AO2Y-IWCHTM102
EUT supports Radios application	WCDMA/HSPA/HSPA+(16QAM uplink is not supported)/ LTE/NFC/ WLAN 2.4GHz 802.11b/g/n HT20 WLAN 5GHz 802.11a/n HT20/HT40 WLAN 5GHz 802.11ac VHT80 Bluetooth BR/EDRLE
HW Version	ChecOut M HW v1.0
SW Version	ChecOut M A-LTE v1.0
EUT Stage	Identical Prototype

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification			
Tx/Rx Frequency Range	5180 MHz ~ 5240 MHz 5260 MHz ~ 5320 MHz 5500 MHz ~ 5700 MHz		
Antenna Type	Ant. 1 : Internal Inverted-L (PCB) Antenna Ant. 2 : Internal Inverted-F (Top Bezel) Antenna		
Antenna Gain	<5180 MHz ~ 5240 MHz> Ant. 1 : 2.35 dBi Ant. 2 : -2.19 dBi <5260 MHz ~ 5320 MHz> Ant. 1 : 2.66 dBi Ant. 2 : -2.0 dBi <5500 MHz ~ 5700 MHz > Ant. 1 : 1.53 dBi Ant. 2 : 0.76 dBi		
Type of Modulation	802.11a/n : OFDM (BPSK / QPSK / 16QAM / 64QAM) 802.11ac : OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM)		
Antenna Function Description		Ant. 1	Ant. 2
	802.11 a/n/ac SISO	V	V
	802.11 a/n/ac MIMO	V	V

Note: WLAN operation in 5600 MHz ~ 5650 MHz is notched.

1.5 Modification of EUT

No modifications are made to the EUT during all test items.



1.6 Re-use of Measured Data

1.6.1 Introduction Section

This application re-uses data collected on a similar device. The subject device of this application (Model: IWCHT-M102, FCC ID: 2AO2Y-IWCHTM102) is electrically identical to the reference device (Model: IWCHT-M101, FCC ID: 2AO2Y-IWCHTM101) for the portions of the circuitry corresponding to the data being re-used, as treated by KDB Publication 484596 D01.

1.6.2 Difference Section

For details concerning the similarity with respect to component placement, mechanical/electrical design etc., please refer to the Product Equality Declaration.

The re-used RF data includes the following bands provided in Appendix A (Sporton RF Report No. FR7D0101E for the reference device Model: IWCHT-M101, FCC ID: 2AO2Y-IWCHTM101).

1.6.3 Reference detail Section:

Equipment Class	Reference FCC ID	Folder Test	Report Title/Section
DSS (BR/EDR)	2AO2Y-IWCHTM101	Part15C(FR7D0101A)	All sections applicable
DTS (BLE)	2AO2Y-IWCHTM101	Part15C(FR7D0101B)	All sections applicable
DTS (WLAN)	2AO2Y-IWCHTM101	Part15C(FR7D0101C)	All sections applicable
DXX(NFC)	2AO2Y-IWCHTM101	Part15C(FR7D0101D)	All sections applicable
NII(B1-3)	2AO2Y-IWCHTM101	Part15E(FR7D0101E)	All sections applicable
NII(B4)	2AO2Y-IWCHTM101	Part15E(FR7D0101F)	All sections applicable
NII(DFS)	2AO2Y-IWCHTM101	Part15E(FZ7D0101)	All sections applicable

**1.6.4 Spot Check Verification Data Section**

In order to confirm hardware similarity of the subject device with the reference device, spot check measurements were performed on the subject device for the following test items, the test result were consistent with FCC ID: 2AO2Y-IWCHTM101.

Assertions concerning the similarity of these devices are based on representations by the applicant. The applicant accepts full responsibility for the validity of the similarity claim, and for the determination that verification test data are sufficient to support it.

Test Item	Mode	2AO2Y-IWCHTM101 Worst Result	2AO2Y-IWCHTM102 Worst Result	Difference (dB)
Peak/Average Conducted Power (dBm)	802.11b	24.28	23.83	0.45
	802.11g	24.32	24.2	0.12
	11n HT20	22.33	21.94	0.39
	BT (1Mbps)	8.43	8.19	0.24
	BT (2Mbps)	8.21	7.9	0.31
	BT (3Mbps)	8.37	8.02	0.35
	BT-LE	6.11	5.8	0.31
	11a, 5.2GHz	17.49	17.12	0.37
	11n HT20, 5.2GHz	15.6	15.26	0.34
	11n HT40, 5.2GHz	16.19	15.77	0.42
	11a, 5.3GHz	17.16	16.76	0.4
	11n HT20, 5.3GHz	15.11	14.85	0.26
	11n HT40, 5.3GHz	15.74	15.57	0.14
	11a, 5.5GHz	16.89	16.44	0.45
	11n HT20, 5.5GHz	14.87	14.54	0.33
	11n HT40, 5.5GHz	15.54	15.19	0.35
	11a, 5.8GHz	17.43	16.65	0.78
	11n HT20, 5.8GHz	15.45	14.56	0.89
	11n HT40, 5.8GHz	16.12	15.41	0.71



Appendix A. Reference Report

Please refer to Sporton report number FR7D0101E which is issued separately.